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SEMI-ANNUAL GROUNDWATER MONITORING REPORT

June 2002 Sampling Event

Former Nello Teer Quarry

5013 Denfield Street

Durham, North Carolina

Prepared for:

Hanson Aggregates

2300 Gateway Centre Blvd.

Morrisville, North Carolina 27560

Prepared by:

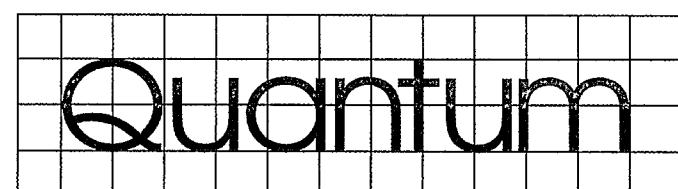
Quantum Environmental, Inc.

6001 Chapel Hill Road, Suite 108

Raleigh, NC 27607

July 2002

Quantum Project No. 013-94-012



Quantum Environmental, Inc.

July 17, 2002

Mr. Mark Powers
North Carolina Department of Environment and Natural Resources
Raleigh Regional Office
1628 Mail Service Center
Raleigh, N.C. 27699-1628

Re: Nello Teer Quarry, Denfield Street, Durham, NC
Semi-Annual Groundwater Monitoring Report Submittal
Groundwater Incident No. 9357



Dear Mr. Powers:

On behalf of Hanson Aggregates, Quantum Environmental, Inc. (Quantum) is submitting the enclosed semi-annual groundwater monitoring report for the above-referenced groundwater incident. This report documents the groundwater conditions at the site in early June 2002.

If you have any questions regarding the enclosed report please contact me at (919) 852-3595.

Sincerely,

QUANTUM ENVIRONMENTAL, INC.

Thomas W. Davis, L.G.
Project Hydrogeologist

L02-159

cc: Mr. Steve Edgerton, L.G., Hanson Aggregates
Mr. Eric Rice, DENR, Groundwater Section, RRO

Semi-Annual Groundwater Monitoring Report

Nello Teer Quarry
5013 Denfield Street
Durham, North Carolina
Durham County
Groundwater Incident #9357

Date of Report: July 17, 2002

Site Priority Ranking: 110B

Responsible Party: Nello Teer Company
5013 Denfield Street
Durham, NC 27560
(919) 477-2413

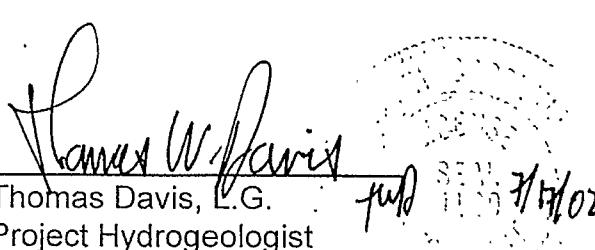
Current Owner: Hanson Aggregates
2300 Gateway Centre
Morrisville, NC 27560
(919) 380-2600

Consultant: Quantum Environmental, Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

Release Information:

The soil and groundwater contamination by petroleum hydrocarbons appears to have originated from gasoline, diesel, and waste oil underground storage tanks (USTs) located at a former gas station on-site with multiple UST nests. Additional groundwater contamination, by chlorinated hydrocarbons, appears to have originated from an asphalt testing laboratory formerly operated by the North Carolina Department of Transportation (NCDOT).

Latitude: 36° 3.45' North **Longitude:** 78° 53.10' West


Thomas Davis, L.G.
Project Hydrogeologist

SEPA 7/17/02

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1.0 Background

On June 4, 2002, Quantum Environmental, Inc. (Quantum) personnel conducted groundwater-sampling activities from selected monitoring wells at the former Nello Teer (Teer) Quarry yard in Durham, North Carolina. This was done in accordance with the active remediation Corrective Action Plan (CAP) submitted to the North Carolina Department of Environment, Health and Natural Resources (DEHNR), Raleigh Regional Office in 1995. This report presents the sampling methodologies, groundwater flow directions, current extent of contamination, analytical results provided by Environmental Science Corporation (ESC), and recommendations. Recovery wells were also sampled during this event to better define the contaminant plumes and assess the progress of the site cleanup.

1.1 *Site Location and History*

The Nello Teer Quarry is an inactive aggregate mining and processing facility located on Denfield Street (State Road 1641) in Durham County, North Carolina (Figure 1). The property has been in operation as a crushed stone quarry and asphalt plant since the 1940s; however, at this time it is used for aggregate staging and equipment maintenance only, with no active mining operations occurring. Groundwater contamination found in a water supply well designated W-1 prompted the issuance of a Notice of Violation from the North Carolina Division of Environmental Management (NCDEM) under the North Carolina Groundwater Standards (15 NCAC 2L) in November, 1993.

The soil and groundwater contamination by petroleum hydrocarbons appears to have originated from gasoline, diesel, and waste oil underground storage tanks (USTs) located at a former gasoline station on-site (multiple UST nests). Additional groundwater contamination, by chlorinated hydrocarbons, appears to have originated from an asphalt-testing laboratory formerly operated by the North Carolina Department of Transportation (NCDOT). A Comprehensive Site Assessment Report, submitted by Geonetics, Inc. in 1993 apparently indicated a large volume of contaminated soil existed at the site; however, many of Geonetics' conclusions were based on field organic vapor analyzer results only and were not confirmed with laboratory analysis of soil samples.

Quantum submitted a revised Corrective Action Plan (CAP) for soil and groundwater remediation along with applications for a permit to land apply hydrocarbon-contaminated soils and a discharge permit (NPDES) for treated groundwater. The permits were both issued and the land application of contaminated soil was completed in 1997. Quantum completed construction and started the groundwater remediation system in October 1997. To date over 11 million gallons of groundwater have been recovered and successfully treated by this remediation system.

June 2002 Compliance Monitoring Event
Hanson Aggregates
Nello Teer Quarry

Five monitoring wells for the shallow (water table) aquifer and nine monitoring wells for the deep (semi-confined) aquifer are present at the site. In addition, there are nine recovery wells at the site. Four recovery wells are located near the old gasoline station on the southern portion of the site (RW-2, 3, 4 and 8), four are located at the site of the old asphalt plant on the northern portion of the site (RW-5, 6, 7, and 9), and one deep recovery well is located between the two source areas (RW-1). A Well Location Map is presented as Figure 2. All of the monitoring and recovery wells except RW-6 were sampled during this event. RW-6 was not sampled because it is currently not in operation.

2.0 Groundwater Sampling Methodology

Prior to collecting groundwater samples, water levels were measured in all monitoring wells using an electronic water level meter. The expansion plugs were removed from each well and enough time was allowed before collecting the measurements to permit the water level in the monitoring wells to equilibrate with the ambient atmospheric pressure. The measurements were collected to an accuracy of 0.01 feet and recorded in the field logbook.

In order to prevent cross contamination from one well to another while collecting water levels, Quantum personnel donned new, clean, non-reactive gloves prior to measuring each well. The electronic water level meter probe and tape were decontaminated following EPA protocol prior to collecting measurements from each well. Water level data from all wells gauged are presented in Table 1.

All monitoring wells sampled were purged by removing at least three well volumes of groundwater, or until the wells went dry, using new disposable bailers and new nylon rope. MW-20D was purged and sampled using a cleaned Grundfos RediFlo 2 pump and new tubing. After allowing groundwater levels to equilibrate to or near static water levels after purging, water samples were collected from the following wells:

Shallow: MW-7, MW-17, MW-18, MW-25 and MW-26
Recovery wells RW-5, RW-6 and RW-7

Deep: MW-1, MW-9, MW-11, MW-13, MW-15I, MW-20D and MW-23
Recovery wells RW-1, RW-2, RW-3, RW-4, RW-8 and RW-9

The samples were placed in labeled, laboratory prepared containers, stored on ice in a cooler, and transported under Chain of Custody to ESC, a North Carolina certified laboratory. The samples were submitted for analysis using EPA Methods 601 and 602. A copy of the Chain of Custody is included in Appendix A.

3.0 Sampling Results

Potentiometric data collected from the monitoring wells indicates that groundwater flow direction for the shallow aquifer is to the southeast with an average hydraulic gradient of 0.018ft/ft. Water levels were generally lower than during the previous sampling event. The groundwater flow direction for the deep aquifer was determined to be to the northwest, towards the quarry pit, with an average hydraulic gradient of 0.025 ft/ft. Table 1 presents a summary of the water level data from the December 2001 sampling event. Figures 3 and 4 present potentiometric surface maps of the shallow and deep aquifers, respectively.

3.1 *Discussion of Sampling Results, Chlorinated VOCs*

Laboratory analytical results from the June 2002 semi-annual sampling event continue to indicate that levels of chlorinated hydrocarbons detected in the groundwater monitoring wells vary across the site. Monitoring wells MW-11 and MW-13 have both experienced steady decreases in chlorinated VOC (CVOC) content since 1995, although both contained only minor concentrations of CVOCs to start. Monitoring wells MW-17 and MW-18 both experienced significant decreases in CVOC content between early 1995 and May 1998, but the total CVOC concentration in both wells seems to have stagnated since then. Deep well MW-20D has had little change in total CVOC content since December 1997. MW-26 experienced a significant decrease in total CVOC content since 1995 and since June 2000 has not contained any CVOC compounds above their respective 2L Standards. Monitoring well MW-25 which has historically contained the greatest concentrations of CVOCs, contained 580.10 µg/l CVOCs in June. This is the smallest concentration of CVOCs ever recorded from this well. This well does still contain several compounds in concentrations significantly above their respective 2L Standards.

Similarly, the concentrations of CVOCs in the recovery wells continues to vary across the site. RW-5 has experienced a steady decrease in total CVOC and individual CVOC content since 1999. RW-6 contains total CVOCs at a concentration similar to that obtained in December 1999, but at a concentration significantly lower than that measured in October 1999. Finally, this well only contains trichloroethene at a concentration above State 2L Standards. Recovery well RW-7 has not contained any compounds above 2L Standards for the last two sampling events. Recovery well RW-9 has essentially not had any change in CVOC concentration since the well has not operated for an extended period of time since installation in May 2000.

Summaries of the current laboratory analytical results for the shallow and deep aquifers are presented in Tables 2 and Table 3, respectively. Figure 6 is the vinyl chloride isoconcentration map for the shallow aquifer. Figures 7, 8, 9 and 10 show the trichloroethene, 1,1-dichloroethene, 1,2-dichloroethane and 1,1,1-trichloroethane

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Hanson Aggregates
Nello Teer Quarry

isoconcentration maps, respectively, for the site. Table 4 provides the complete historical monitoring well data from 1993 through the current monitoring period, and Table 5 is a compilation of the analytical results for the recovery wells at the site. Overall, sampling results from the site indicate the gradual decrease in groundwater concentrations. This historic data has been plotted in a series of groundwater concentration versus time graphs illustrating the decrease in groundwater concentrations for representative monitoring wells at the site. These graphs are presented as Appendix B.

3.2 Discussion of Sampling Results, Petroleum Hydrocarbons

Laboratory analytical results from the June 2002 semi-annual sampling event indicate that levels of petroleum hydrocarbons detected in the groundwater monitoring wells have continued to decrease in all wells since the January 2001 sampling event.

MW-20D contains benzene and di-isopropyl ether (DIPE) above State 2L Standards while MW-23 contains only benzene above the 2L Standards. MW-15I continues to show no evidence of petroleum compounds above the State 2L Standards. Recovery well RW-1 has not contained any petroleum compounds above 2L Standards since June 2000. Recovery well RW-2 has not contained any petroleum compounds above 2L Standards since January 2001, and only one compound has been detected above 2L Standards since 1994. Recovery well RW-3 has experienced little change in total petroleum compound content since 1999, with benzene and DIPE currently present significantly above 2L Standards. Recovery well RW-4 contained only benzene above 2L Standards, and this was present at a concentration of 1.1 µg/l versus the 2L Standard of 1.0 µg/l. Recovery wells RW-5, 6, 7 and 9 did not contain any petroleum compounds, and RW-6 was not sampled as this well is currently not operational.

An isoconcentration map for benzene concentrations in groundwater can be found in Figure 5.

4.0 Remedial System Operation Summary

Operation of the remediation system continued without significant interruption. A variety of scheduled and non-scheduled maintenance items were conducted on the system during the period, including filter replacements (bi-weekly on average), transfer pump repairs, flow switch replacements, activated carbon replacement and disposal, and replacement and troubleshooting of various other remedial system items and components.

5.0 Summary and Recommendations

A continued decrease in petroleum-based groundwater contaminant concentrations (primarily benzene) occurred during the monitoring period. This is undoubtedly due in large part to the operation of the remediation system, but may also be, in part, due to the on-going drought in the Piedmont area.

Chlorinated hydrocarbon concentrations have continued to decrease at the site, but at an unacceptably slow pace. The chlorinated plume appears to be in need of accentuated treatment, and an HRC® injection event has been proposed to deal with the remnant VOC concentrations. Without accentuated treatment, concentrations are not expected to decrease at an acceptable rate. Concentrations of vinyl chloride, and other degradation by-products of the chlorinated compounds present at the site were detected in four monitoring wells and three recovery wells above the 2L Standards during the current groundwater-monitoring event.

Based on the results of the current semi-annual sampling event, Quantum recommends that operation of the groundwater remediation system continue until concentrations in RW-3 reach or exceed the remedial goal of 12 µg/l benzene for two consecutive events. As groundwater recovery in the shallow portions of the chlorinated plume is low, and the cost of maintenance of the system is fairly high, Quantum believes that HRC® treatment or some other method of remediation of this area will be preferable to bring about the desired reductions in contaminant levels in the chlorinated plume. The current groundwater recovery system is considered inadequate to complete the task of decreasing the levels of chlorinated VOCs. Quantum believes that as the system continues to operate and the contaminated subsurface in the area of the remediation shed is remediated, the petroleum hydrocarbon plume should reach the remedial goal for this area and the system may be deactivated in the petroleum impacted portion of the site. Without additional treatment, Quantum anticipates less contaminant reduction in the chlorinated plume in the future, with a low potential to reach the 2L Standards. Quantum recommends the use of Hydrogen Release Compound HRC® or some other method of treatment in this area to expedite cleanup. Prior to finalizing the HRC® injection, if it is pursued, it is recommended that the full vertical and lateral extent of the chlorinated plume be delineated. At that time the use of HRC® as well as alternative methods of accelerating the remediation of the chlorinated solvents should be evaluated and a decision made concerning the remediation of this plume.

While an amended and more reasonable cleanup goal has been established for the petroleum plume area, no such amended remedial goals exist for the chlorinated contaminant plume area. At the present time, DENR policy mandates that the 2L Standards must be attained in order to reach closure.

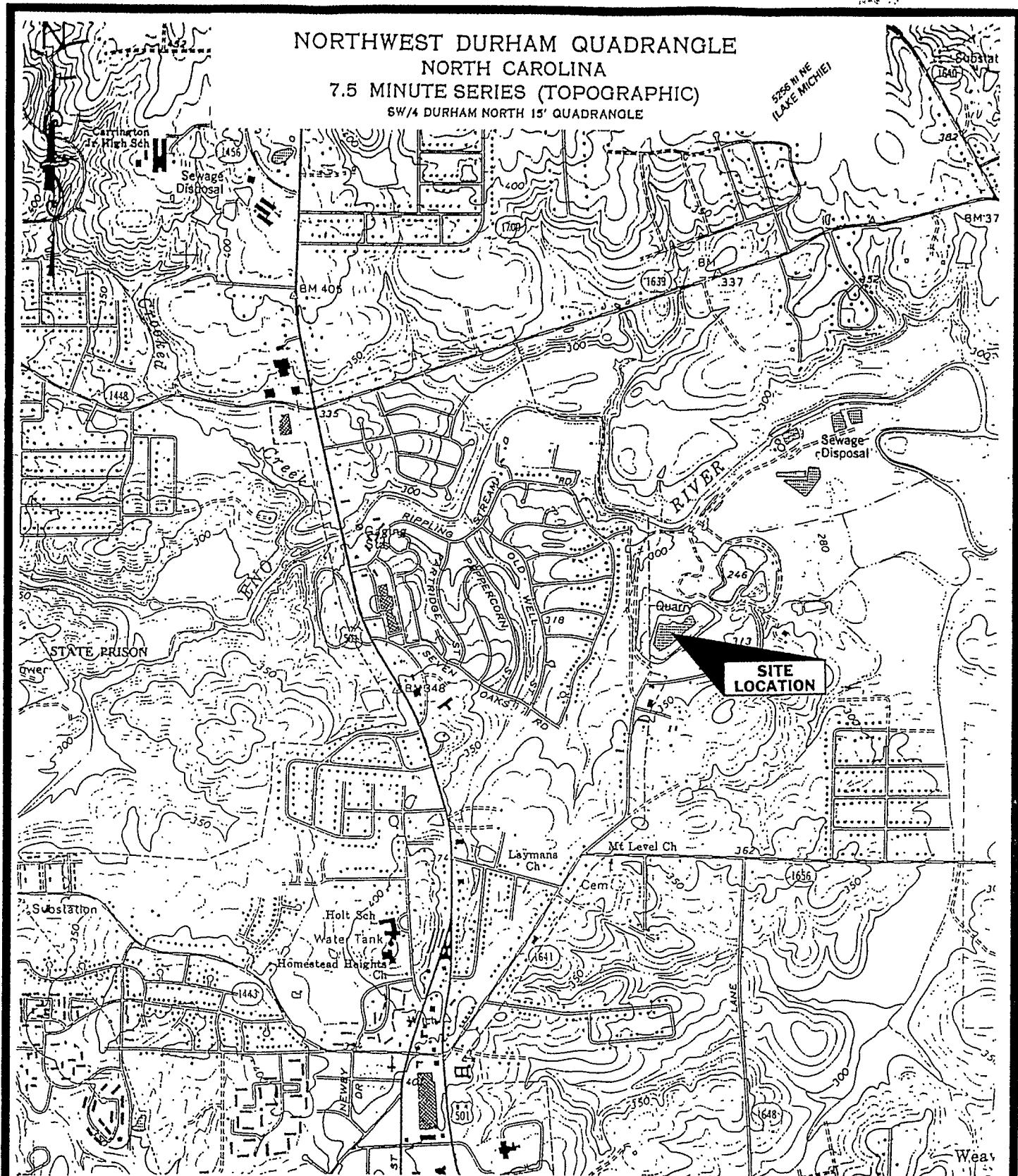
June 2002 Compliance Monitoring Event
Hanson Aggregates
Nello Teer Quarry

Based on the results of the current sampling event in comparison with previous years' data, concentrations of contaminants continue to decrease at the site, as three of the eight operating recovery wells at the site now produce non-detectable to trace levels of contaminants. Quantum anticipates further decreases over time.

Figures



Figures



SITE LOCATION MAP

Nello Teer Quarry
 5013 Denfield Street
 Durham, North Carolina

Quantum

Environmental, Inc.

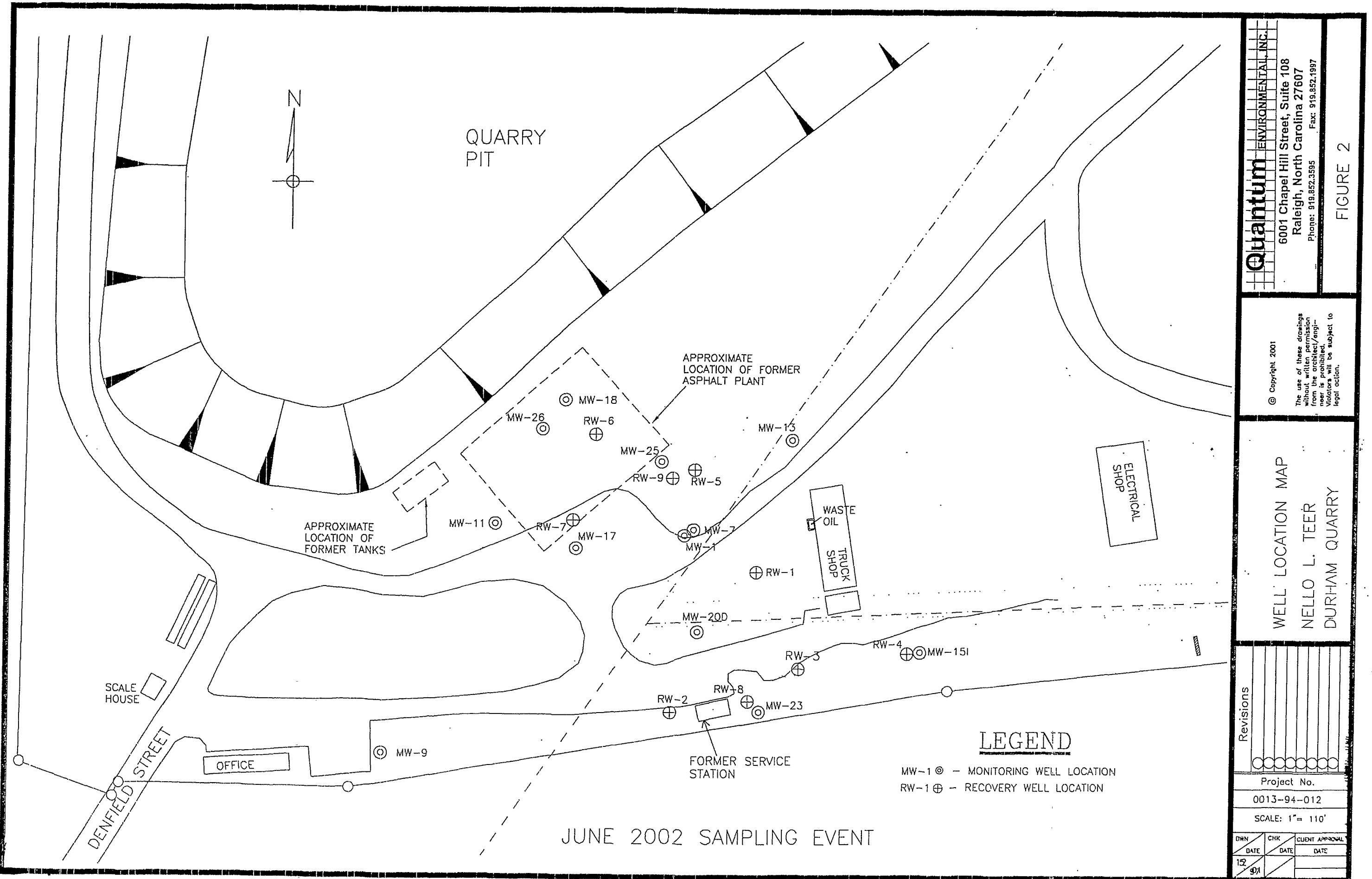
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 Raleigh, NC 27607

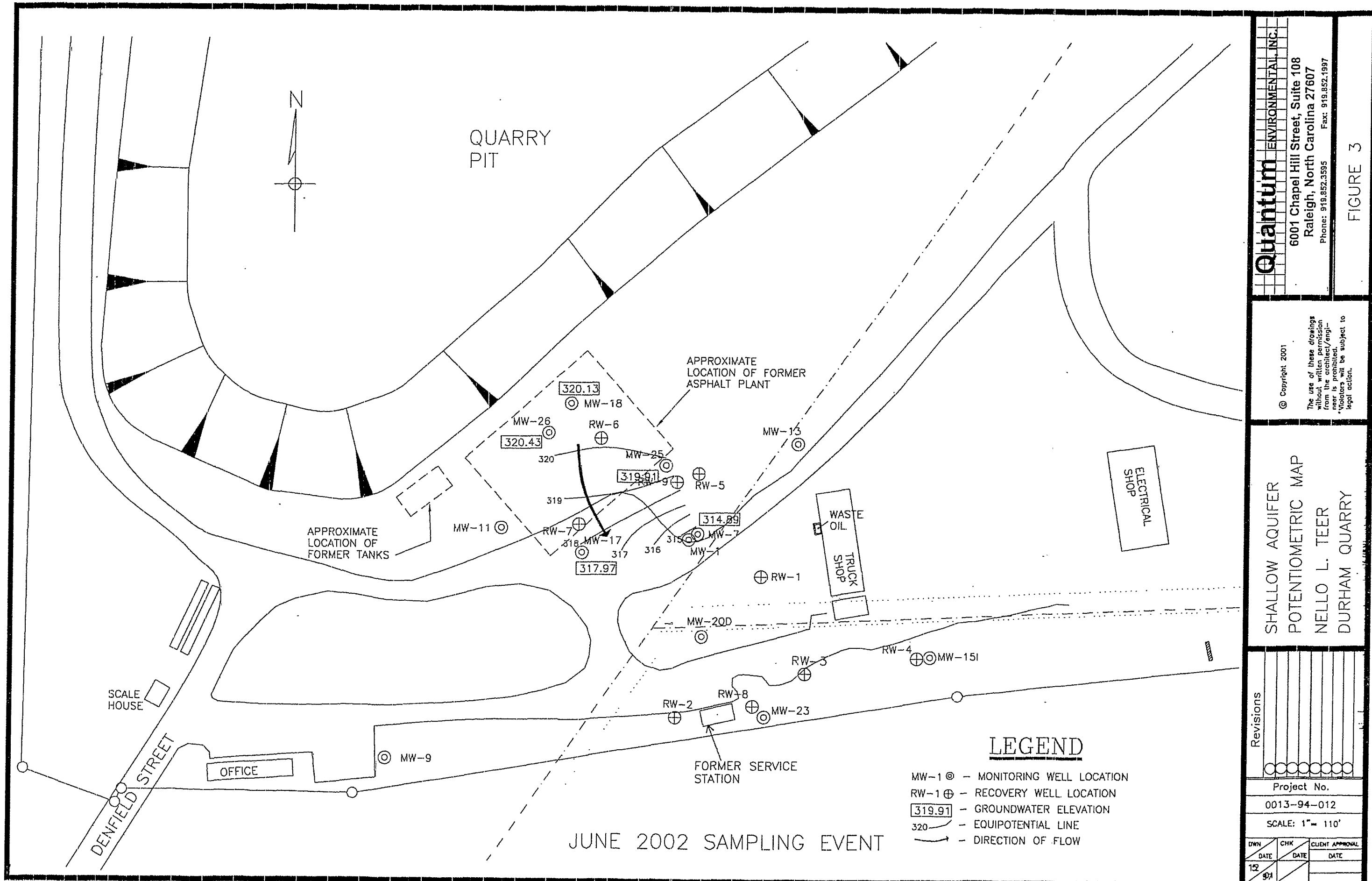
(919) 852-3595 (919) 852-1997

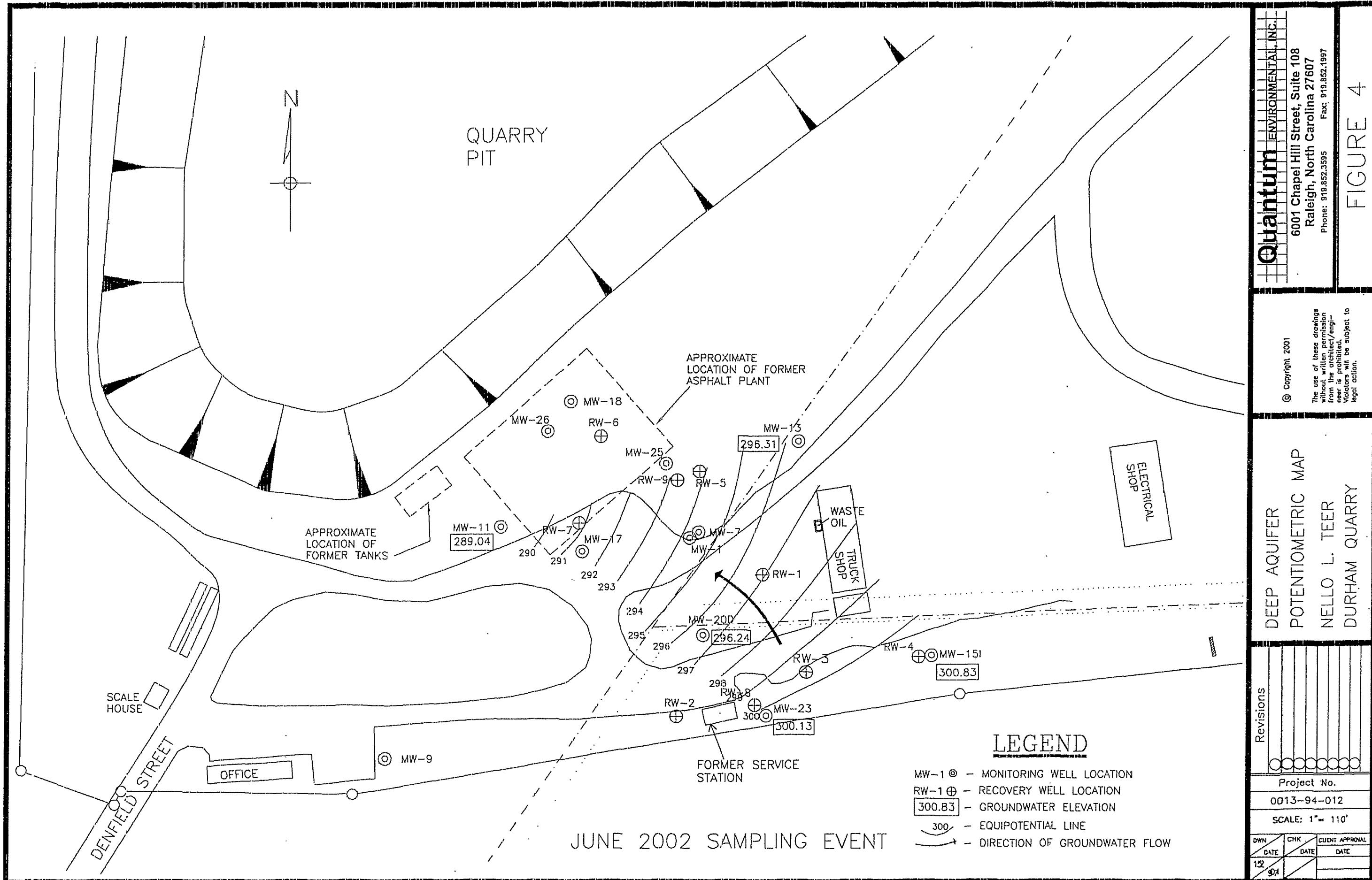
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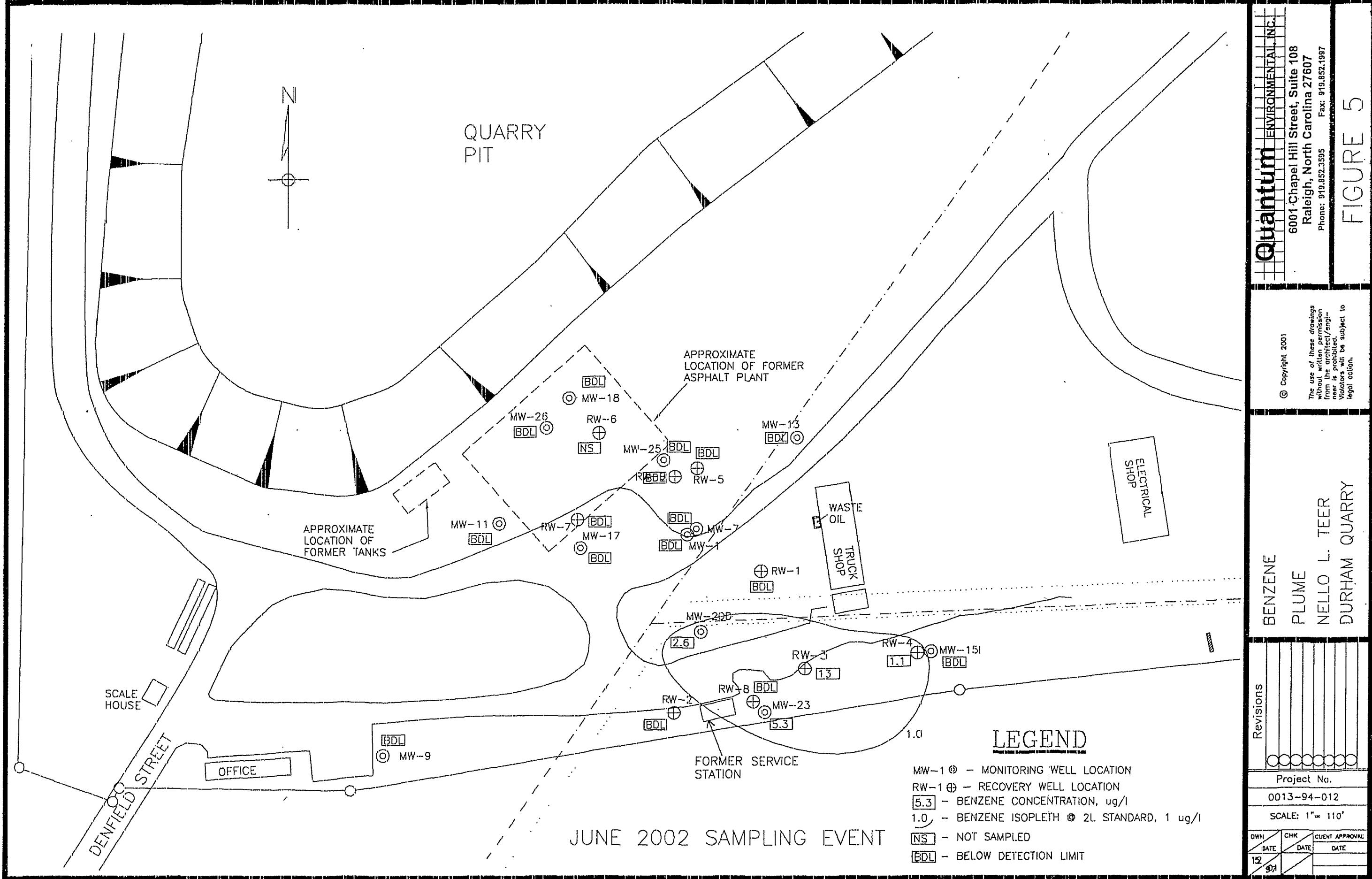
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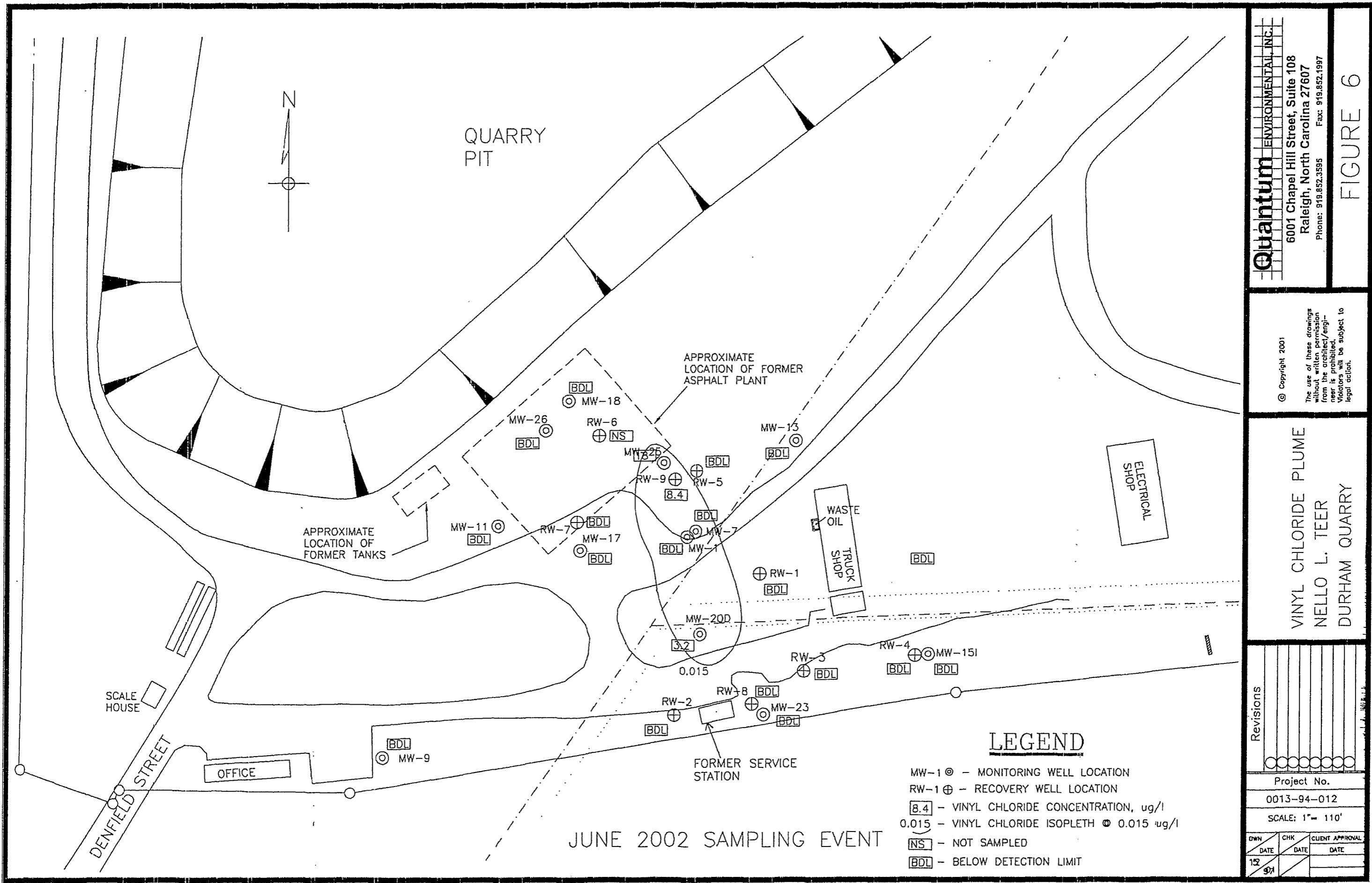
Proj. No: 0013-94-012

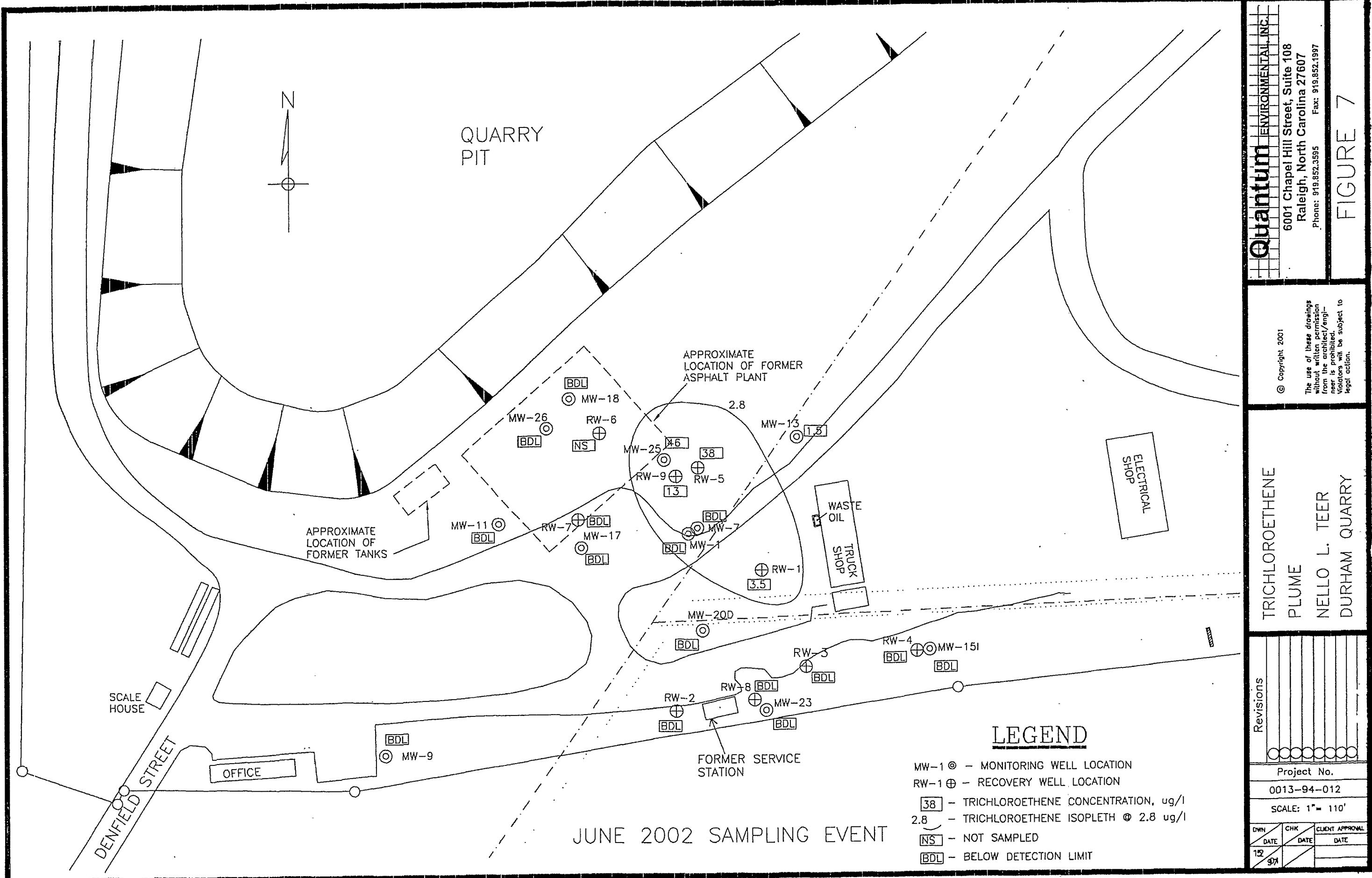












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6001 Chapel Hill Street, Suite 108
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Phone: 919.852.3595 Fax: 919.852.1597

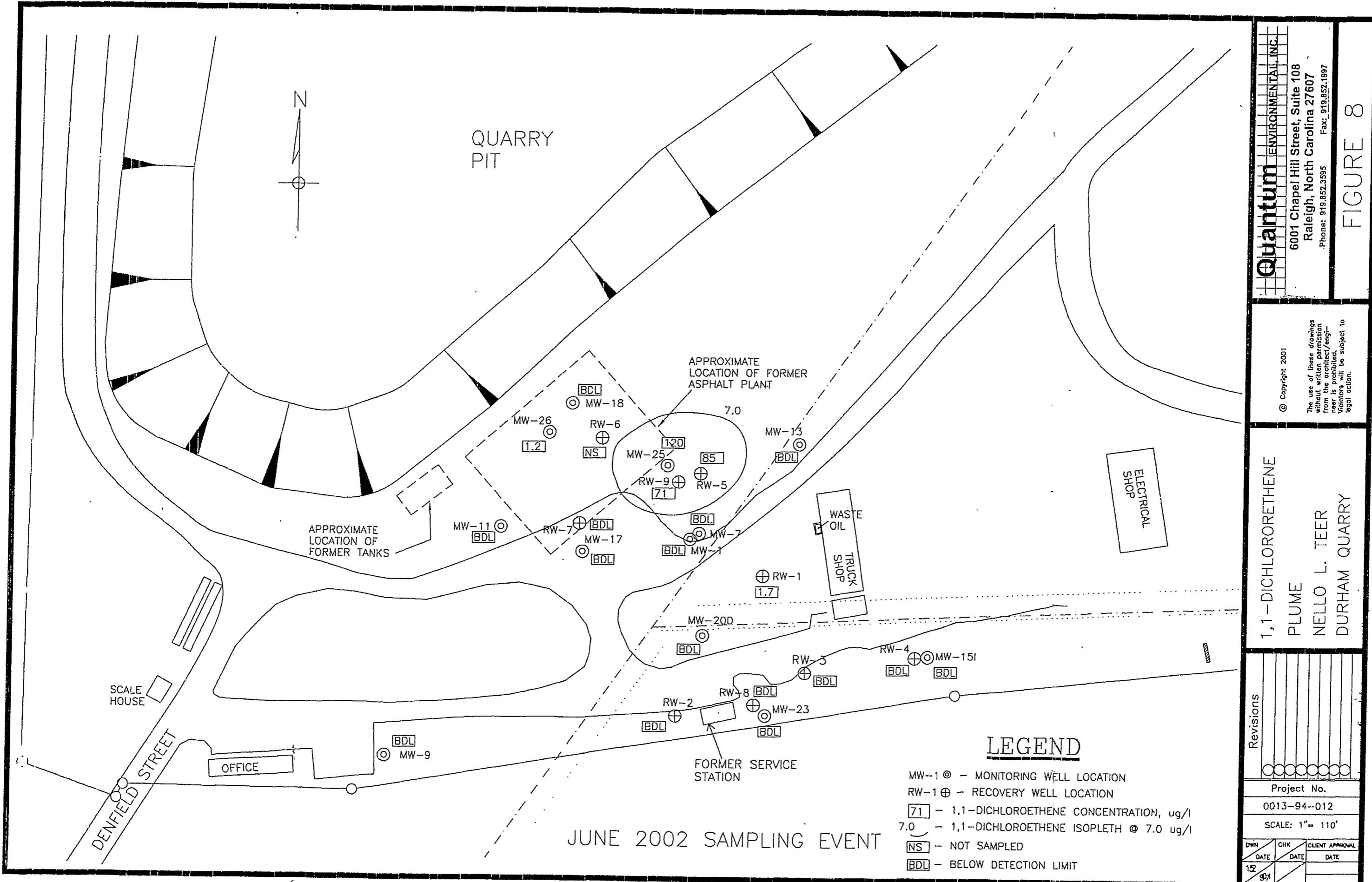
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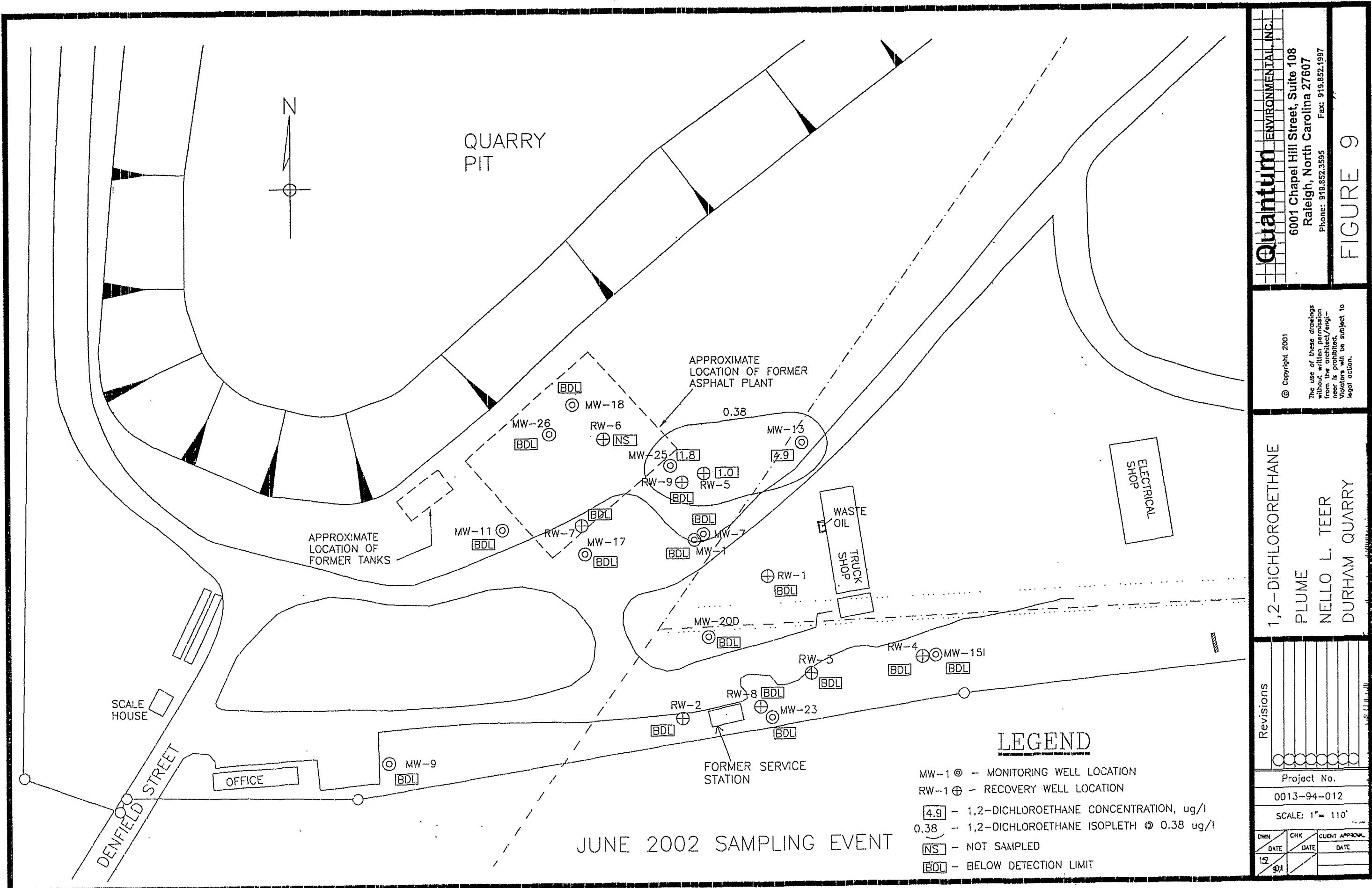
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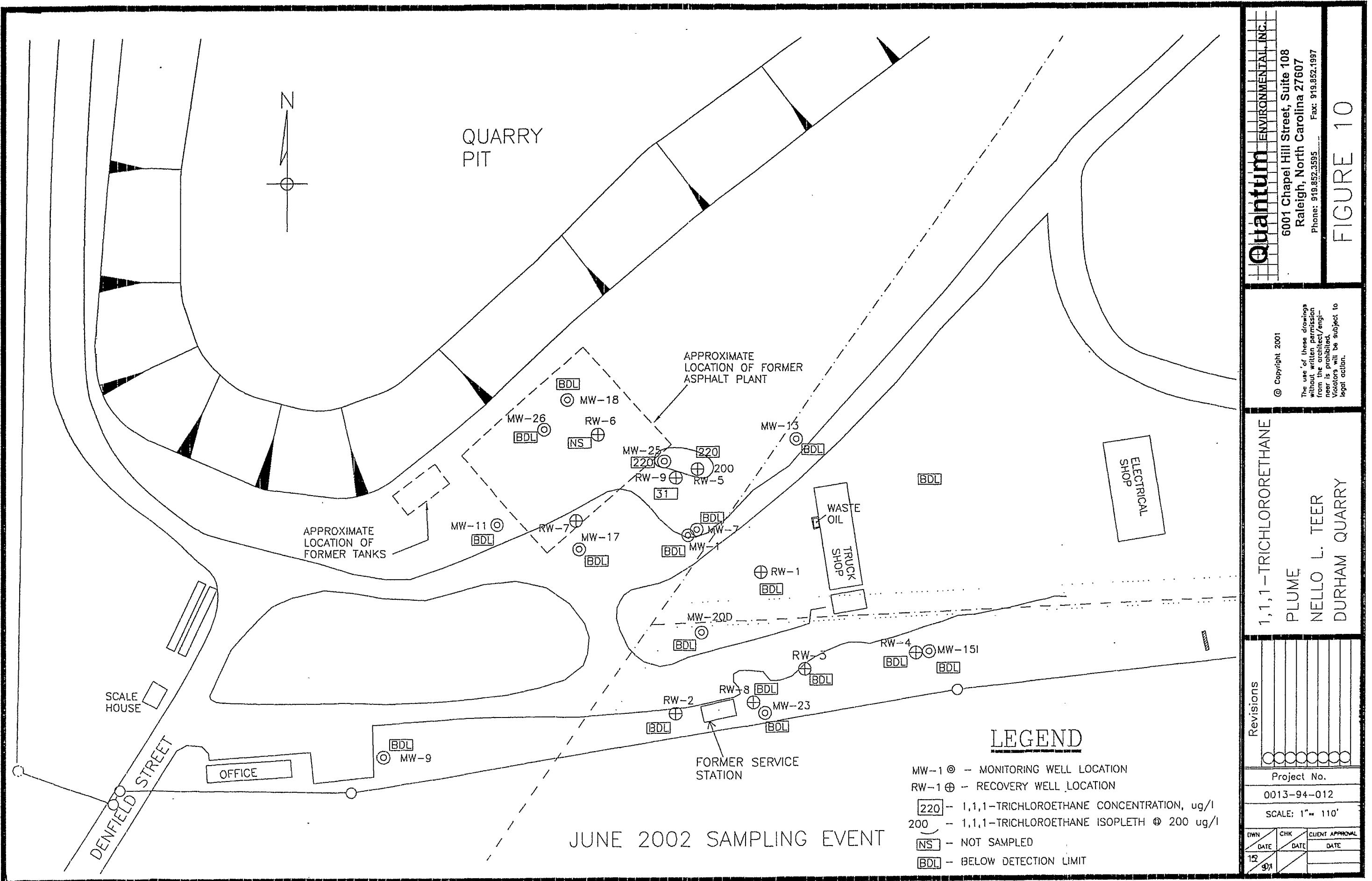
TRICHLOROETHENE
PLUME
NELLO L. TEER
DURHAM QUARRY

Revisions
Project No.
0013-94-012

SCALE: 1" = 110'
DWN DATE CHK DATE CLIENT APPROVAL
15 97







Tables

Table 1. Well and Water Level Data
June 2002 Sampling Event
Nello Teer Quarry, Denfield St.
Durham, North Carolina

Well #	Top of Casing Elevation ^a	Screen Interval ^b	Depth to Water ^c	Water Table Elevation ^a	Purge Volume (Gallons)
MW-1	329.5	20.0 - 35.0	23.80	305.70	15
MW-7	329.26	9.0 - 14.0	14.37	314.89	5
MW-9	333.65	25.0 - 40.0	30.65	303.00	5
MW-11	327.87	35.0 - 50.0	38.83	289.04	5
*MW-13	326.48	50.0 - 65.0	30.17	296.31	18
MW-15I	329.53	25.0 - 40.5	28.70	300.83	5
MW-17	327.59	2.5 - 12.5	9.62	317.97	2
MW-18	328.43	3.0 - 13.0	8.30	320.13	2.5
MW-20D	329.58	110.0 - 115.0	33.34	296.24	42
MW-23	331.87	25.0 - 47.0	31.74	300.13	18
MW-25	328.92	4.0 - 14.0	9.01	319.91	2
MW-26	328.92	3.0 - 13.0	8.49	320.43	2.5

^a surveyed elevation, referenced to mean sea level

^b feet below land surface

^c feet below top of casing

Table 2. Groundwater Sample Results Summary-Shallow Monitoring Wells
June 2002 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	MW-7	MW-17	MW-18	MW-25	MW-26	2L LIMITS
Benzene	BDL ^a	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes (Total)	BDL	BDL	BDL	BDL	BDL	530.00
MTBE	BDL	BDL	BDL	BDL	BDL	200.00
Bromomethane	BDL	BDL	BDL	BDL	BDL	1.00
Chloroform	BDL	BDL	BDL	BDL	BDL	0.19
Chloroethane	BDL	BDL	BDL	23	BDL	2800.00
1,1-Dichloroethane	BDL	3.9	1.9	150	2.0	700
1,2-Dichoroethane	BDL	BDL	BDL	1.8^b	BDL	0.38
1,1-Dichlorethene	BDL	BDL	BDL	120	1.2	7.00
Trichloroethene	BDL	BDL	BDL	46.0	BDL	2.80
1,1,1-Trichloroethane	BDL	BDL	BDL	220	BDL	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	1.3	BDL	1.00
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	1.00
Vinyl chloride	BDL	3.2	2.2	18.0	BDL	0.015
Total CVOCs	--	7.1	4.1	580.1	3.2	--

All Values in $\mu\text{g/L}$.

^a BDL Indicates Below Detection Limit

^b BOLD Indicates Concentration Above State Standard

Quantum Project No. 0013-94-012

Table 2, cont. **Groundwater Sample Results Summary-Shallow Recovery Wells**
June 2002 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	RW-5	RW-6	RW-7	2L LIMITS
Benzene	BDL ^a	NS ^b	BDL	1.00
Toluene	BDL	NS	BDL	1000.00
Ethylbenzene	BDL	NS	BDL	29.00
Xylenes (Total)	BDL	NS	BDL	530.00
MTBE	BDL	NS	BDL	200.00
Bromomethane	BDL	NS	BDL	1.00
Chloroform	BDL	NS	BDL	0.19
Chloroethane	2.4	NS	BDL	2800.00
1,1-Dichloroethane	96	NS	1.5	700
1,2-Dichloroethane	1.0 ^c	NS	BDL	0.38
1,1-Dichlorethane	85	NS	BDL	7.00
Trichloroethene	38	NS	BDL	2.80
1,1,1-Trichloroethane	220	NS	BDL	200.00
1,1,2-Trichloroethane	BDL	NS	BDL	1.00
Tetrachloroethene	BDL	NS	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	NS	BDL	1.00
Vinyl Chloride	BDL	NS	BDL	0.015
<i>Total CVOCs</i>	442.4	NS	1.5	--

All Values in $\mu\text{g/L}$.

^a BDL Indicates Below Detection Limit

^b NS Indicates Not Sampled

^c BOLD Indicates Concentration Above State Standard

NA indicates parameter not analyzed for

Quantum Project No. 0013-94-012

Table 3. Groundwater Sample Results Summary-Deep Monitoring Wells
June 2002 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	MW-1	MW-9	MW-11	MW-13	MW-15I	MW-20D	MW-23	2L LIMITS
Benzene	BDL ^a	BDL	BDL	BDL	BDL	2.6 ^b	5.3	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	2.4	29.00
Xylenes (Total)	BDL	BDL	BDL	BDL	BDL	BDL	4.5	530.00
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
DIPE	BDL	BDL	BDL	BDL	BDL	5.3	9.8	70.00 ^c
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.19
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2800.00
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
1,2-Dichloroethane	BDL	BDL	BDL	4.9	BDL	BDL	BDL	0.38
1,1-Dichlorethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	BDL	1.5	BDL	BDL	BDL	2.80
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Vinyl chloride	BDL	BDL	BDL	BDL	BDL	3.2	BDL	0.015
Total CVOCS	--	--	--	6.4	--	3.2	--	--

All Values in µg/L.

^a BDL Indicates Below Detection Limit

^b BOLD Indicates Concentration Above State Standard

^c Interim Standard

Quantum Project No. 0013-94-012

Table 3, cont.

Groundwater Sample Results Summary-Deep Recovery Wells
June 2002 Sampling Event
Nello Teer Quarry, Denfield Street
Durham, North Carolina

PARAMETER	RW-1	RW-2	RW-3	RW-4	RW-8	RW-9	2L LIMITS
Benzene	BDL ^a	BDL	13 ^b	1.1	BDL	BDL	1.00
Toluene	BDL	BDL	5.9	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	11	BDL	BDL	BDL	29.00
Xylenes (Total)	BDL	BDL	20.8	BDL	BDL	BDL	530.00
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	200.00
DIPE	BDL	BDL	12	BDL	13	BDL	70.00 ^c
Bromomethane	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	0.19
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	2800.00
1,1-Dichloroethane	1.7	BDL	BDL	BDL	BDL	130	700
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	0.38
1,1-Dichlorethane	1.7	BDL	BDL	BDL	BDL	71	7.00
Trichloroethene	3.5	BDL	BDL	BDL	BDL	13	2.80
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	31	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	0.70
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Vinyl chloride	BDL	BDL	BDL	BDL	BDL	8.4	0.015
Total CVOCS	5.2	--	--	--	--	253.4	--

All Values in ug/L.

^a BDL Indicates Below Detection Limit

^b BOLD Indicates Concentration Above State Standard

^c Interim Standard

NA indicates parameter not analyzed.

Quantum Project No. 0013-94-012

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

W-1

Constituent	Date		2L Standard		
	5/7/93	5/7/93	5/20/93	5/20/93	
Benzene	16.00	38.80	34.40	11.30	1.00
Toluene	0.90	1.00	1.80	2.60	1000.00
Ethylbenzene	0.40	1.00	1.00	8.80	29.00
Xylenes	5.10	15.40	17.20	NA	530.00
Naphthalene	NA	NA	2.00	NA	21.00
MTBE	NA	51.60	11.80	BDL	200.00
EDB	NA	NA	BDL	BDL	70.00
IPE	NA	NA	NA	BDL	0.07
Total PAH	22.40	107.80	68.20	22.70	
1,1-Dichloroethane	NA	0.73	0.73	BDL	700.00
Trichloroethene	NA	4.70	5.04	BDL	2.80
cis-,1,2-Dichloroethylene	NA	NA	NA	NA	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVCOCs	0.00	5.43	5.77	0.00	
Lead	NA	NA	1.00	NA	15.00

W-2

Constituent	Date	2L Standard
	5/18/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	70.00
IPE	BDL	0.07
Total PAH	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	NA	70.00
Vinyl Chloride	BDL	0.02
Total CVCOCs	0.00	
Lead	0.50	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

W-3

Constituent	Date	2L Standard
	5/19/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	0.90	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	70.00
IPE	BDL	0.07
Total PAH	0.90	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	NA	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	0.50	15.00

W-4

Constituent	Date	2L Standard
	5/19/93	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	70.00
IPE	BDL	0.07
Total PAH	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	NA	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	BDL	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

W-5

Constituent	Date			2L Standard
	5/20/93	5/20/93	5/20/93	
Benzene	BDL	BDL	BDL	1.00
Toluene	0.07	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	NA	530.00
Naphthalene	BDL	2.00	NA	21.00
MTBE	BDL	BDL	BDL	200.00
EDB	BDL	1.00	BDL	70.00
IPE	BDL	NA	BDL	0.07
Total PAH	0.07	3.00	0.00	
1,1-Dichloroethane	BDL	1.00	BDL	700.00
Trichloroethene	BDL	2.10	BDL	2.80
cis-,1,2-Dichloroethylene	NA	NA	NA	70.00
Vinyl Chloride	BDL	1.00	BDL	0.02
Total CVOCs		4.10	0.00	
Lead	0.20	1.00	BDL	15.00

MW-1

Constituent	Date												2L Standard	
	5/20/93 ⁽¹⁾	8/29/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	8/29/95 ⁽²⁾	3/14/96 ⁽²⁾	10/11/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99	12/7/00	6/4/02	
Benzene	BDL	BDL	BDL	BDL	BDL	NS	BDL	1.00						
Toluene	0.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	NS	BDL	29.00						
Xylenes	BDL	BDL	BDL	BDL	BDL	NS	BDL	530.00						
Naphthalene	BDL	BDL	BDL	BDL	BDL	NS	NA	21.00						
MTBE	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	NA	70.00
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	BDL	0.07
Total VOCs	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	NS	BDL	700.00						
Trichloroethene	BDL	BDL	BDL	BDL	BDL	NS	BDL	2.80						
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	NS	BDL	70.00						
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	NS	BDL	0.02						
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

RW-2 (former MW-2)

Constituent	Date								2L Standard
	5/7/93 ⁽¹⁾	5/20/93 ⁽¹⁾	8/29/94 ⁽²⁾	08/29/99	06/15/00	01/23/01	06/15/01	12/28/01	
Benzene	575.00	353.00	95.00	6.80	BDL	1.60	NS	BDL	BDL 1.00
Toluene	1,160.00	418.00	19.00	BDL	1.70	BDL	NS	BDL	BDL 1000.00
Ethylbenzene	84.40	BDL	62.00	BDL	1.00	2.40	NS	BDL	BDL 29.00
Xylenes	1,425.00	106.00	61.00	BDL	13.00	1.10	NS	BDL	BDL 530.00
Naphthalene	NA	NA	2.78	BDL	BDL	BDL	NS	NS	NS 21.00
MTBE	NA	BDL	NA	BDL	BDL	BDL	NS	3.00	BDL 200.00
EDB	NA	BDL	NA	BDL	BDL	BDL	NS	NS	NS 70.00
IPE	NA	BDL	NA	BDL	BDL	BDL	NS	NS	BDL 0.07
Total VOCs	2,200.40	877.00	239.78	6.80	15.70	5.10	NS	3.00	BDL
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL 700.00
Trichloroethene	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL 2.80
cis-,1,2-Dichloroethylene	NA	NA	90.00	BDL	6.50	2.60	NS	NS	BDL 70.00
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	NS	NS	BDL 0.02
Total CVOCs	0.00	0.00	90.00	0.00	6.50	2.60	NS	NS	0.00
Lead	<0.05	0.20	NA	NA	NA	NS	NS	NS	15.00

MW-3

Constituent	Date				2L Standard
	5/21/93 ⁽¹⁾	8/29/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	
Benzene	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	BDL	BDL	NA	200.00
EDB	BDL	NA	NA	NA	70.00
IPE	BDL	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	
Lead	0.056	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-4

Constituent	Date	2L Standard
	5/18/93 ⁽¹⁾	
Benzene	BDL	1.00
Toluene	0.70	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	70.00
IPE	BDL	0.07
Total VOCs	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	NA
Lead	0.50	15.00

MW-5

Constituent	Date	2L Standard
	5/7/93 ⁽¹⁾	5/20/93 ⁽¹⁾
Benzene	BDL	BDL
Toluene	BDL	BDL
Ethylbenzene	BDL	BDL
Xylenes	BDL	BDL
Naphthalene	NA	BDL
MTBE	NA	BDL
EDB	NA	BDL
IPE	NA	BDL
Total VOCs	0.00	0.00
1,1-Dichloroethane	NA	BDL
Trichloroethene	NA	BDL
cis-,1,2-Dichloroethylene	NA	BDL
Vinyl Chloride	NA	BDL
Total CVOCs	0.00	0.00
Lead	NA	0.07
		15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-6

Constituent	Date	2L Standard
	5/21/93 ⁽¹⁾	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	70.00
IPE	BDL	0.07
Total VOCs	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	0.03	15.00

MW-7

Constituent	Date												2L Standard
	5/21/93 ⁽¹⁾	8/29/94 ⁽²⁾	1/26/95 ⁽²⁾	8/29/95 ⁽²⁾	4/27/95 ⁽²⁾	3/14/96 ⁽²⁾	10/11/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99 ⁽⁴⁾	12/7/00 ⁽⁴⁾	06/04/02
Benzene	BDL	BDL	BDL	BDL	NA	BDL	1.00						
Toluene	BDL	BDL	BDL	BDL	NA	BDL	1000.00						
Ethylbenzene	BDL	BDL	BDL	BDL	NA	BDL	29.00						
Xylenes	BDL	BDL	BDL	BDL	NA	BDL	530.00						
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	21.00						
MTBE	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.1	NA	BDL
EDB	BDL	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	70.00
IPE	BDL	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10		
1,1-Dichloroethane	BDL	BDL	BDL	BDL	NA	BDL	700.00						
Trichloroethene	BDL	BDL	BDL	BDL	NA	BDL	2.80						
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	NA	BDL	70.00						
Vinyl Chloride	BDL	BDL	BDL	BDL	NA	BDL	0.02						
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Lead	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-8

Constituent	Date	2L Standard
	5/19/93 ⁽¹⁾	
Benzene	BDL	1.00
Toluene	BDL	1000.00
Ethylbenzene	BDL	29.00
Xylenes	BDL	530.00
Naphthalene	BDL	21.00
MTBE	BDL	200.00
EDB	BDL	70.00
IPE	BDL	0.07
Total VOCs	0.00	
1,1-Dichloroethane	BDL	700.00
Trichloroethene	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	70.00
Vinyl Chloride	BDL	0.02
Total CVOCs	0.00	
Lead	<0.05	15.00

MW-9

Constituent	Date					2L Standard
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/25/95 ⁽²⁾	4/27/95 ⁽²⁾	6/4/02	
Benzene	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	NA	21.00
MTBE	BDL	NA	NA	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	NA	70.00
IPE	BDL	NA	NA	NA	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	BDL	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	1.30	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	1.30		
Lead	<0.05	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-11

Constituent	Date											2L Standard
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	8/29/95 ⁽²⁾	3/13/96 ⁽²⁾	10/9/96 ⁽²⁾	12/3/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	21.00
MTBE	BDL	NA	NA	NA	BDL	NA	NA	1.30	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	NA	70.00
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	0.00	0.00		
1,1-Dichloroethane	0.60	BDL	BDL	BDL	BDL	2.40	BDL	3.00	2.20	1.00	BDL	BDL
Trichloroethene	BDL	BDL	2.50	1.80	BDL	1.60	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	22.90	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.60	0.00	2.50	24.70	0.00	4.00	0.00	3.00	2.20	1.00	0.00	
Lead	<0.05	NA	NA	15.00								

MW-12

Constituent	Date				2L Standard
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	
Benzene	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	200.00
EDB	BDL	NA	NA	NA	70.00
IPE	BDL	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-13

Constituent	Date													2L Standard		
	9/9/93 ⁽¹⁾	8/31/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	8/29/95 ⁽²⁾	3/14/96 ⁽²⁾	10/9/96 ⁽²⁾	12/3/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99 ⁽⁴⁾	12/7/00	6/13/01	12/28/01	6/4/02	
Benzene	BDL	3.10	BDL	BDL	1.13	3.40	BDL	1.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	2.83	BDL	BDL	BDL	BDL	BDL	1000.00						
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	2.63	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	BDL	BDL	BDL	3.20	2.00	BDL	BDL	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	70.00
IPE	BDL	NA	NA	NA	23.10	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	29.69	3.40	0.00	4.20	2.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	4.40	6.00	7.90	13.20	2.06	2.40	2.67	11.00	7.90	3.30	6.4	3.7	5.2	4	4.90	700.00
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	3.80	BDL	2.70	BDL	BDL	2.2	BDL	BDL	BDL	BDL	BDL	200.00
Trichloroethene	BDL	5.10	BDL	4.10	BDL	2.90	3.02	2.40	BDL	2.40	2.8	BDL	1.30	1.40	1.50	2.80
1,1-Dichloroethylene	BDL	BDL	BDL	2.30	BDL	3.00	BDL	2.50	1.70	1.70	4.2	2.2	3.8	1	BDL	7.00
cis-,1,2-Dichloroethylene	BDL	3.40	BDL	3.40	2.48	4.10	BDL	BDL	2.70	2.2	2.3	2.1	2.1	BDL	70.00	
Vinyl Chloride	BDL	BDL	BDL	BDL	1.40	BDL	BDL	1.20	BDL	BDL	BDL	1.20	1.00	BDL	0.02	
Total CVOCS	4.40	14.50	7.90	23.00	57.33	21.00	5.69	18.60	10.80	10.10	17.80	8.20	13.60	9.50	6.40	
Lead	<0.05	NA	NA	NA	NA	NA	15.00									

MW-14S

Constituent	Date								2L Standard	
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/31/95 ⁽²⁾	4/27/95 ⁽²⁾	8/30/95 ⁽²⁾	3/15/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	1.17	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	2.10	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	507.00	BDL	BDL	4.10	2.20	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	70.00
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	507.00	0.00	3.27	4.10	2.20	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCS	0.00	0.00	0.00	0.00	0.00	0.00	3.27	0.00	0.00	
Lead	<0.05	NA	15.00							

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-14

Constituent	Date											2L Standard
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/31/95 ⁽²⁾	4/27/95 ⁽²⁾	3/15/96 ⁽²⁾	10/9/96 ⁽²⁾	12/3/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99	12/7/00	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL 21.00
MTBE	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NS	BDL 200.00
EDB	BDL	NA	BDL	BDL	NS	BDL 70.00						
IPE	BDL	NA	BDL	BDL	NS	BDL 0.07						
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS 700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS 2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS 70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	NS 0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	NS
Lead	<0.05	NA	NA	NS	15.00							

MW-15S

Constituent	Date					2L Standard
	9/9/93 ⁽¹⁾	8/31/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	8/30/95 ⁽²⁾	
Benzene	10.70	17.50	BDL	BDL	BDL	1.00
Toluene	8.80	2.60	BDL	BDL	BDL	1000.00
Ethylbenzene	76.40	147.00	43.00	56.30	77.70	29.00
Xylenes	NA	430.00	170.00	188.00	205.00	530.00
Naphthalene	13.00	63.30	60.90	53.40	27.60	21.00
MTBE	8.30	NA	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	70.00
IPE	BDL	NA	NA	NA	BDL	0.07
Total VOCs	117.20	660.40	273.90	297.70	310.30	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-15I

Constituent	Date												2L Standard	
	9/9/93 ⁽¹⁾	8/31/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	8/30/95 ⁽²⁾	3/15/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99 ⁽⁴⁾	6/7/00 ⁽⁴⁾	6/15/01	06/04/02
Benzene	BDL	BDL	BDL	BDL	2.16	BDL	BDL	BDL	1.30	4.80	2.5	BDL	BDL	BDL 1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	2.70	3.40	1.90	BDL	BDL	BDL	BDL	1.20	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	3.60	9.00	BDL	BDL	BDL	BDL	BDL	1.90	4.4	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.20	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	44.60	BDL	BDL	12.00	13.00	BDL	6.1	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	70.00
IPE	BDL	NA	NA	NA	5.70	NA	NA	NA	NA	BDL	BDL	NA	BDL	0.07
Total VOCs	BDL	6.30	12.40	1.90	52.46	0.00	0.00	12.00	15.20	8.90	10.50	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NS	
Lead	<0.05	NA	NA	NA	15.00									

MW-16S

Constituent	Date						2L Standard
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/25/95 ⁽²⁾	4/27/95 ⁽²⁾	3/14/96 ⁽²⁾	10/9/96 ⁽²⁾	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	NA	NA	70.00
IPE	BDL	NA	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-16I

Constituent	Date										2L Standard
	9/9/93 ⁽¹⁾	8/31/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	3/14/96 ⁽²⁾	10/9/96 ⁽²⁾	12/1/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000 active monitoring network
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29 in June, 2000
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21
MTBE	BDL	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	200
EDB	BDL	NA	BDL	BDL	70						
IPE	BDL	NA	BDL	BDL	0.07						
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	1.1	BDL	BDL	BDL	2.8
cis-1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	0.00	
Lead	<0.05	NA	NA	15							

MW-17

Constituent	Date												2L Standard			
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/31/95 ⁽²⁾	4/27/95 ⁽²⁾	8/29/95 ⁽²⁾	3/13/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99	6/7/00	6/15/01	12/28/01	6/4/02	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	1.00	
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	1000.00	
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	29.00	
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	530.00	
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	21.00	
MTBE	BDL	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	NA	NA	BDL	200.00	
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	NA	NA	NA	70.00	
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	NA	NA	BDL	0.07	
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,1-Dichloroethane	17.10	BDL	15.50	23.30	23.40	10.40	9.33	7.40	7.20	6.00	7.3	2.6	1.9	1.9	3.90	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80	
cis-1,2-Dichloroethylene	BDL	BDL	3.80	2.10	2.92	1.30	BDL	BDL	BDL	1.00	BDL	BDL	BDL	BDL	70.00	
Vinyl Chloride	2.20	38.90	63.00	BDL	23.40	35.30	21.70	BDL	2.60	5.00	5.7	1.70	2.50	2.00	3.20	0.02
Total CVOCs	19.30	38.90	82.30	25.40	49.72	47.00	31.03	7.40	9.80	12.00	13.00	4.30	6.30	3.90	7.10	
Lead	<0.05	NA	NA	NA	NA	NA	15.00									

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-18

Constituent	Date													2L Standard		
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/31/95 ⁽²⁾	4/27/95 ⁽²⁾	8/29/95 ⁽²⁾	3/14/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99	6/7/00	6/15/01	1/2/02	06/04/02	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	1.00
Toluene	1.30	BDL	BDL	BDL	NA	NA	BDL	1000.00								
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	21.00
MTBE	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	NA	70.00
IPE	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	BDL	0.07
Total VOCs	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA	NA	BDL	
1,1-Dichloroethane	48.10	BDL	BDL	97.90	71.30	5.80	10.60	12.00	1.50	BDL	1.40	BDL	2.30	1.90	1.90	700.00
1,2-Dichloroethane	BDL	BDL	27.00	BDL	BDL	BDL	BDL	BDL	BDL	0.38						
1,1-Dichloroethene	BDL	BDL	3.90	BDL	1.93	BDL	BDL	1.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	NA	BDL	4.80	1.40	3.73	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.40	2.50	BDL	70.00
Vinyl Chloride	10.90	BDL	50.00	BDL	58.90	16.30	10.90	8.10	2.30	BDL	3.80	BDL	4.70	1.60	2.20	0.02
Chloroethane	BDL	BDL	50.00	BDL	59.00	9.50	BDL	1.30	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Total CVOCs	59.00	0.00	135.70	99.30	194.86	31.60	21.50	23.10	3.80	0.00	5.20	0.00	13.60	6.00	4.10	
Lead	<0.05	NA	NA	NA	NA	NA	NA	15.00								

MW-19

Constituent	Date								2L Standard
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/31/95 ⁽²⁾	4/27/95 ⁽²⁾	3/14/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	NA	NA	BDL	BDL	200.00
EDB	BDL	NA	70.00						
IPE	BDL	NA	0.07						
Total VOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	15.00						

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-20S

Constituent	Date						2L Standard
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/25/95 ⁽²⁾	4/27/95 ⁽²⁾	8/30/95 ⁽²⁾	3/14/96 ⁽²⁾	
Benzene	15.00	64.40	44.00	71.80	64.40	64.90	1.00
Toluene	1.80	9.50	6.20	BDL	26.00	2.40	1000.00
Ethylbenzene	BDL	16.38	7.00	14.60	25.30	5.90	29.00
Xylenes	BDL	21.00	16.70	20.60	80.70	17.00	530.00
Naphthalene	BDL	3.84	3.29	4.90	BDL	4.50	21.00
MTBE	7.30	BDL	BDL	BDL	9.69	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	70.00
IPE	14.20	NA	NA	NA	50.00	NA	0.07
Total VOCs	38.30	115.12	77.19	111.90	256.09	94.70	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	700.00	
Trichloroethene	BDL	BDL	BDL	BDL	BDL	2.80	
cis-1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	70.00	
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.02	
Total CVOCs	0.00	0.00	0.00	0.00	0.00		
Lead	<0.05	NA	NA	NA	NA	NA	15.00

MW-20D

Constituent	Date													2L Standard		
	9/9/93 ⁽¹⁾	8/31/94 ⁽²⁾	1/25/95 ⁽²⁾	4/27/95 ⁽²⁾	8/30/95 ⁽²⁾	3/15/96 ⁽²⁾	10/11/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99 ⁽⁴⁾	12/7/00	6/14/01	1/2/02	06/04/02	
Benzene	15.00	30.00	22.00	29.80	30.30	20.00	21.60	16.00	13.00	12.30	1.80	1.50	BDL	1.80	2.60	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.40	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	6.20	NA	NA	NA	BDL	NA	NA	5.70	4.30	BDL	BDL	BDL	BDL	BDL	BDL	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70.00
IPE	14.20	NA	NA	NA	26.60	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	5.30	0.07
Total VOCs	35.40	30.00	22.00	29.80	56.90	20.00	21.60	26.20	17.30	12.30	1.80	1.50	0.00	1.80	7.90	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
cis-1,2-Dichloroethylene	BDL	8.00	BDL	5.20	5.47	4.00	BDL	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	4.30	BDL	1.70	3.20	3.00	BDL	BDL	BDL	1.20	2.30	3.20	0.02
Total CVOCs	0.00	8.00	0.00	5.20	5.47	8.30	0.00	1.70	3.20	4.10	0.00	0.00	1.20	2.30	3.20	
Lead	<0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.00

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results

Nello Teer Quarry

Durham County

MW-21

Constituent	Date					2L Standard
	9/9/93 ⁽¹⁾	8/30/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	3/15/96 ⁽²⁾	
Benzene	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	21.00
MTBE	BDL	NA	NA	NA	BDL	200.00
EDB	BDL	NA	NA	NA	NA	70.00
IPE	BDL	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	700.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	2.80
cis-,1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL	70.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCS	0.00	0.00	0.00	0.00	0.00	
Lead	<0.05	NA	NA	NA	NA	15.00

MW-22

Constituent	Date											2L Standard	
	4/28/94 ⁽¹⁾	8/30/94 ⁽²⁾	1/25/95 ⁽²⁾	4/27/95 ⁽²⁾	8/30/95 ⁽²⁾	3/14/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99	12/7/00	
Benzene	9.40	BDL	BDL	NS	1.00								
Toluene	BDL	BDL	NS	1000.00									
Ethylbenzene	BDL	BDL	NS	29.00									
Xylenes	BDL	BDL	NS	530.00									
Naphthalene	BDL	BDL	NS	21.00									
MTBE	BDL	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	NS	200.00
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	70.00
IPE	8.00	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	NS	0.07
Total VOCs	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,1-Dichloroethane	NA	BDL	BDL	NS	700.00								
Trichloroethene	NA	BDL	BDL	NS	2.80								
cis-,1,2-Dichloroethylene	NA	BDL	BDL	NS	70.00								
Vinyl Chloride	NA	BDL	BDL	NS	0.02								
Total CVOCS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Lead	<0.005	NA	NA	NS	15.00								

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-23

Constituent	Date													2L Standard		
	4/28/94 ⁽¹⁾	8/30/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	8/30/95 ⁽²⁾	3/14/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99 ⁽⁴⁾	12/7/00 ⁽⁴⁾	06/13/01 ⁽⁴⁾	12/28/02 ⁽⁴⁾		
Benzene	21.00	68.40	36.00	67.90	58.90	56.40	69.70	42.00	23.00	37.10	14.3	28	11.6	37	5.30	1.00
Toluene	BDL	13.00	BDL	14.50	18.60	9.90	4.52	BDL	6.70	7.50	1.9	1.8	1.5	4.6	BDL	1000.00
Ethylbenzene	BDL	46.50	14.00	40.40	30.70	14.90	11.30	BDL	9.60	19.10	2.3	16.7	BDL	38.9	2.40	29.00
Xylenes	BDL	100.00	40.00	95.30	77.30	24.70	35.50	41.00	40.00	39.60	18	6.6	BDL	30.6	4.50	530.00
Naphthalene	BDL	33.70	42.50	42.90	19.10	32.00	11.70	BDL	9.10	12.00	BDL	BDL	BDL	24.70	NA	6.00
MTBE	BDL	NA	NA	NA	BDL	BDL	BDL	5.40	BDL	8.8	3.00	NA	7.20	BDL	200.00	
EDB	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	NA	70.00
IPE	15.00	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	9.80	0.07
Total VOCs	36.00	216.60	132.50	261.00	204.60	137.90	132.72	83.00	93.80	115.30	45.30	47.10	13.00	143.00	22.00	
1,1-Dichloroethane	NA	BDL	BDL	BDL	BDL	BDL	700.00									
1,2-Dichloroethane	NA	BDL	1.30	BDL	1.00	1.30	BDL	BDL	0.38							
Trichloroethene	NA	BDL	BDL	BDL	BDL	BDL	2.80									
cis-1,2-Dichloroethylene	NA	BDL	BDL	BDL	BDL	BDL	70.00									
Vinyl Chloride	NA	BDL	BDL	BDL	BDL	BDL	0.02									
Total CVOCS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.00	1.00	1.30	0.00		
Lead	<0.005	NA	NA	NA	NA	15.00										

MW-24

Constituent	Date										2L Standard
	4/28/94 ⁽¹⁾	8/30/94 ⁽²⁾	1/31/95 ⁽²⁾	4/27/95 ⁽²⁾	3/15/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99 ⁽⁴⁾	
Benzene	BDL	2.60	BDL	BDL	1.00						
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	6.00	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	29.00									
Xylenes	BDL	4.80	BDL	BDL	530.00						
Naphthalene	BDL	21.00									
MTBE	BDL	NA	NA	NA	NA	NA	1.20	1.80	BDL	BDL	200.00
EDB	BDL	NA	BDL	BDL	70.00						
IPE	BDL	NA	BDL	BDL	0.07						
Total VOCs	0.00	0.00	0.00	0.00	0.00	1.20	15.20	0.00	0.00		
1,1-Dichloroethane	NA	BDL	700.00								
Trichloroethene	NA	BDL	2.80								
cis-1,2-Dichloroethylene	NA	BDL	70.00								
Vinyl Chloride	NA	BDL	0.02								
Total CVOCS	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00		
Lead	<0.005	NA	15.00								

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-25

Constituent	Date														2L Standard	
	8/30/94 ⁽²⁾	1/31/95 ⁽²⁾	4/27/95 ⁽²⁾	8/29/95 ⁽²⁾	3/14/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99 ⁽⁴⁾	6/8/00 ⁽⁴⁾	12/7/00 ⁽⁴⁾	6/15/01	12/28/01	06/04/02	
Benzene	BDL	BDL	BDL	NA	NA	BDL	1.00									
Toluene	BDL	BDL	BDL	336.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	NA	NA	BDL	29.00									
Xylenes	BDL	BDL	BDL	NA	NA	BDL	530.00									
Naphthalene	BDL	BDL	2.2	BDL	BDL	BDL	NA	NA	BDL	21.00						
MTBE	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	200.00
EDB	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	NA	BDL	70.00
IPE	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	NA	NA	BDL	0.07
Total VOCs	0.0	0.0	2.2	336.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA	
1,1-Dichloroethane	840.0	690.0	632.0	1100.0	262.0	259.0	350.0	240.0	282.0	185.0	110.0	156.0	160.0	200.0	150.00	700.00
1,2-Dichloroethane	BDL	BDL	BDL	7.6	BDL	7.5	BDL	1.3	2.0	BDL	3.0	BDL	2.9	1.80	0.38	
1,1-Dichloroethene	BDL	770.0	708.0	1270.0	618.0	501.0	390.0	340.0	204.0	280.0	80.0	282.0	100.0	234.0	120.00	7.00
Trichloroethene	280.0	125.0	267.0	232.0	152.0	206.0	81.0	BDL	98.0	110.0	64.3	90.0	34.7	77.4	46.00	2.80
1,1,1-Trichloroethane	BDL	1710.0	2709.0	3920.0	1440.0	2080.0	620.0	1000.0	358.0	725.0	465.0	342.0	365.0	354.0	220.00	200.00
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL	3.7	6.6	BDL	BDL	2.2	BDL	2.1	BDL	1.5	1.30	1.00
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	5.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2100.00
Tetracholorethane	BDL	BDL	BDL	BDL	BDL	BDL	1.4	BDL	BDL	2.5	BDL	BDL	BDL	BDL	BDL	0.70
cis-,1,2-Dichloroethylene	330.0	470.0	319.0	429.0	164.0	BDL	BDL	151.0	32.0	81.5	84.0	BDL	92.5	BDL	70.00	
Vinyl Chloride	BDL	BDL	BDL	126.0	85.6	48.9	BDL	30.0	BDL	33.2	13.2	29.7	19.1	29.7	18.00	0.02
Chloroethane	BDL	BDL	BDL	BDL	BDL	8.7	4.3	BDL	BDL	8.2	BDL	4.4	4.1	3.9	23.00	2800.00
Carbon Tetrachloride	BDL	BDL	BDL	BDL	192.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.30
1,1,2,2 Tetrachloroethane	BDL	1.0	1.0	1.8	BDL	BDL	BDL	BDL	1.00							
Total CVOCs	1450.0	3765.0	4635.0	7077.0	2921.2	3107.3	1466.0	1610.0	1094.3	1381.1	815.0	995.0	682.9	1000.7	580.10	
Lead	NA	NA	NA	NA	NA	NA	15.00									

MW-26

Constituent	Date														2L Standard		
	8/29/94 ⁽²⁾	1/26/95 ⁽²⁾	4/27/95 ⁽²⁾	8/29/95 ⁽²⁾	3/13/96 ⁽²⁾	10/9/96 ⁽²⁾	12/2/97 ⁽³⁾	5/13/98 ⁽³⁾	6/17/99 ⁽⁴⁾	12/10/99 ⁽⁴⁾	6/7/00 ⁽⁴⁾	12/7/00 ⁽⁴⁾	6/15/01	1/2/02	06/04/02		
Benzene	BDL	BDL	BDL	NS	NA	NA	BDL	1.00									
Toluene	BDL	BDL	BDL	NS	NA	BDL	1000.00										
Ethylbenzene	BDL	BDL	BDL	NS	NA	BDL	29.00										
Xylenes	BDL	BDL	BDL	NS	NA	BDL	530.00										
Naphthalene	BDL	42.5	BDL	BDL	BDL	NS	NA	NA	21.00								
MTBE	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	NS	NA	BDL	200.00	
EDB	NA	NA	NA	BDL	NA	NA	BDL	NA	BDL	BDL	BDL	BDL	NS	NA	NA	70.00	
IPE	NA	NA	NA	BDL	NA	NA	BDL	NA	BDL	BDL	BDL	BDL	NS	NA	BDL	0.07	
Total VOCs	0.0	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NA			
1,1-Dichloroethane	BDL	100.0	109.0	85.4	BDL	54.3	13.0	5.6	3.6	2.4	BDL	NS	1.0	1.8	2.00	700.00	
1,1-Dichloroethene	BDL	BDL	8.1	10.7	13.6	7.2	5.2	3.6	4.2	5.1	BDL	NS	BDL	BDL	1.20	7.00	
Trichloroethene	BDL	BDL	BDL	NS	BDL	BDL	2.80										
cis-,1,2-Dichloroethylene	BDL	BDL	4.9	5.8	8.3	BDL	BDL	BDL	5.8	5.8	BDL	NS	BDL	2.7	BDL	70.00	
Vinyl Chloride	29.5	BDL	BDL	44.8	56.6	20.1	12.0	6.9	7.0	6.0	BDL	NS	BDL	BDL	BDL	0.02	
Total CVOCs	29.5	100.0	122.0	146.7	78.5	81.6	30.2	16.1	20.6	19.3	0.0	1.0	4.5	3.20			
Lead	NA	NA	NA	NS	NS	NA	15.00										

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 4. Summary of Groundwater Analytical Results
 Nello Teer Quarry
 Durham County

MW-27

Constituent	Date		2L Standard
	9/9/93 ⁽¹⁾	8/29/94 ⁽²⁾	
Benzene	BDL	BDL	1.00
Toluene	BDL	BDL	1000
Ethylbenzene	BDL	BDL	29
Xylenes	BDL	BDL	530
Naphthalene	BDL	BDL	21
MTBE	BDL	NA	200
EDB	BDL	NA	70
IPE	BDL	NA	0.07
Total PAH	0.00	NA	
1,1-Dichloroethane	BDL	BDL	700
Trichloroethene	BDL	BDL	2.8
cis-,1,2-Dichloroethylene	BDL	BDL	70
Vinyl Chloride	BDL	BDL	0.02
Total CVOCs	0.00	0.00	⁽³⁾
Lead	0.05	NA	15

NOTES: (1) = EPA Methods 601/602/625 Total PAH/239.2 Lead as sampled by Geogenetics; analyzed by Southern Testing

(2) = EPA Methods 601/602/610 as sampled by Front Royal (Quantum); analyzed by Hydrologic

(3) = EPA Methods 601/602/610 as sampled by Quantum; analyzed by Pace Laboratories

(4) = EPA Methods 601/602/610 as sampled by Quantum; analyzed by Test America

(*) = Summation of All Fractions of Detected VOCs including naphthalene.

<data/123files/13/139412/allgwdata.xls>

BDL Indicates Below Detection Limit.

NA Indicates Not Analyzed.

NS Indicates Not Sampled.

Bold Indicates Concentration Above State 2L Standard.

Table 5: Nello Teer Recovery Well Sampling Results

Constituent	RW-1								2L Standard
	8/29/99	2/25/00	6/14/00	9/8/00	12/7/00	6/15/01	12/28/01	6/6/02	
Benzene	6.80	BDL	1.20	BDL	BDL	BDL	BDL	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	1.10	BDL	BDL	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	21.00
MTBE	BDL	BDL	BDL	1.80	BDL	BDL	1.70	BDL	200.00
EDB	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	70.00
IPE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.07
Total VOCs	0.00	0.00	2.30	1.80	0.00	0.00	0.00	0.00	
1,1-Dichloroethane	BDL	7.40	BDL	2.90	12.50	5.10	6.20	BDL	700.00
1,1 Dichloroethene	BDL	BDL	1.50	1.60	5.40	1.30	2.40	1.70	7.00
1,2 Dichloroethane	BDL	BDL	3.00	BDL	BDL	BDL	BDL	BDL	0.38
Trichloroethene	BDL	2.20	BDL	3.20	3.60	4.80	6.00	3.50	2.80
1,1,1 Trichloroethane	BDL	3.40	BDL	1.00	2.80	BDL	BDL	BDL	200.00
cis-,1,2-Dichloroethylene	BDL	2.20	1.80	3.10	3.30	8.40	10.80	NA	70.00
Chloroethane	BDL	BDL	2.90	BDL	BDL	BDL	BDL	BDL	2800.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	2.80	2.60	BDL	0.02
Total CVOCs	0.00	15.20	9.20	11.80	27.60	24.90	28.00	5.20	
1-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	MDL
2-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	NA	MDL
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	NA	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results

Constituent	RW-2 (formerly MW-2)								2L Standard	
	Date	5/7/93	5/20/93	8/29/94	8/29/99	6/14/00	1/23/01	10/26/01		
Benzene		575.00	353.00	95.00	BDL	BDL	1.60	BDL	BDL	1.00
Toluene		1160.00	418.00	19.00	BDL	1.70	BDL	BDL	BDL	1000.00
Ethylbenzene		84.40	BDL	62.00	BDL	1.00	2.40	BDL	BDL	29.00
Xylenes		1425.00	106.00	61.00	BDL	13.00	1.10	BDL	BDL	530.00
Naphthalene		NA	NA	2.78	BDL	BDL	BDL	NA	NA	21.00
MTBE		NA	BDL	NA	BDL	BDL	BDL	3.00	BDL	200.00
EDB		NA	BDL	NA	BDL	BDL	BDL	BDL	NA	70.00
IPE		NA	BDL	NA	BDL	BDL	BDL	BDL	BDL	0.07
Total VOCs		3244.40	877.00	239.80	0.00	15.70	5.10	3.00	0.00	
1,1-Dichloroethane		NA	BDL	BDL	BDL	BDL	NA	BDL		700.00
1,1 Dichloroethene		NA	NA	NA	BDL	BDL	BDL	NA	BDL	7.00
Trichloroethene		NA	BDL	BDL	BDL	BDL	BDL	NA	BDL	2.80
1,1,1 Trichloroethane		NA	NA	NA	BDL	BDL	BDL	NA	BDL	200.00
cis-,1,2-Dichloroethene		NA	NA	90.00	BDL	6.50	2.60	NA	NA	70.00
Chloroethane		NA	NA	NA	BDL	BDL	BDL	NA	BDL	2800.00
Vinyl Chloride		NA	BDL	BDL	BDL	BDL	BDL	NA	BDL	0.02
Total CVOCs		0.00	0.00	90.00	0.00	6.50	3.80	NA	0.00	
1-Methylnaphthalene		NA	NA	NA	BDL	BDL	BDL	NA	NA	MDL
Phenanthrene		NA	NA	NA	BDL	BDL	BDL	NA	NA	210.00
Lead		<0.05	0.20	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results

Constituent	Date						2L Standard	
	8/29/99	2/25/00	6/14/00	12/7/00	6/15/01	12/28/01		
Benzene	25.50	BDL	7.60	9.70	16.80	10.30	13.00	1.00
Toluene	21.50	BDL	3.60	2.90	11.00	2.60	5.90	1000.00
Ethylbenzene	22.50	BDL	3.30	1.80	19.30	6.10	11.00	29.00
Xylenes	270.00	BDL	16.40	13.20	45.20	6.30	20.80	530.00
Naphthalene	11.00	BDL	8.00	7.00	BDL	27.40	NA	6.00
MTBE	11.50	BDL	BDL	BDL	NS	7.10	BDL	200.00
EDB	BDL	BDL	BDL	BDL	BDL	BDL	NA	70.00
D IPE	BDL	BDL	BDL	BDL	BDL	NS	12.00	0.07
Total VOCs	362.00	0.00	38.90	34.60	92.30	59.80	62.70	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	700.00
1,1 Dichloroethene	BDL	BDL	1.60	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	1.00	BDL	BDL	BDL	BDL	2.80
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	200.00
cis-,1,2-Dichloroethylene	BDL	BDL	2.70	BDL	1.40	BDL	NA	70.00
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2800.00
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.02
Total CVOCs	0.00	0.00	5.30	0.00	1.40	BDL	0.00	
1-Methylnaphthalene	44.00	NA	NA	BDL	BDL	BDL	NA	5.00
2-Methylnaphthalene	38.00	NA	NA	BDL	BDL	BDL	NA	28.00
Phenanthrene	12.00	NA	NA	24.00	2.60	BDL	NA	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results

Constituent	Date							2L Standard
	8/29/1999	3/8/2000	5/3/2000	6/14/2000	12/7/2000	6/15/01	12/28/01	
Benzene	BDL	BDL	5.00	1.80	3.10	BDL	BDL	1.10 1.00
Toluene	BDL	BDL	3.00	3.00	BDL	BDL	BDL	1000.00
Ethylbenzene	BDL	BDL	4.00	4.00	BDL	BDL	BDL	29.00
Xylenes	BDL	BDL	2.00	2.00	BDL	BDL	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	NA	21.00
MTBE	BDL	BDL	5.00	NA	2.20	NA	1.20	200.00
EDB	BDL	BDL	NA	BDL	BDL	BDL	BDL	NA 70.00
IPE	BDL	BDL	NA	NA	NA	NA	NA	0.07
Total VOCs	0.00	0.00	19.00	10.80	5.30	0.00	1.20	
1,1-Dichloroethane	BDL	BDL	NA	BDL	BDL	BDL	BDL	700.00
1,1 Dichloroethene	BDL	BDL	NA	1.70	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	NA	NA	NA	BDL	BDL	2.80
1,1,1 Trichloroethane	BDL	BDL	NA	NA	NA	BDL	BDL	200.00
cis-,1,2-Dichloroethylene	BDL	BDL	NA	2.80	3.10	BDL	BDL	NA 70.00
Chloroethane	BDL	BDL	NA	NA	NA	BDL	BDL	2800.00
Vinyl Chloride	BDL	BDL	NA	2.00	1.20	BDL	BDL	0.02
Total CVOCs	0.00	0.00	NA	6.50	4.30	0.00	0.00	
1-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	MDL
2-Methylnaphthalene	BDL	NA	NA	NA	NA	NA	NA	MDL
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results

Constituent	RW-5							2L Standard
	8/29/99	2/25/00	6/14/00	12/7/00	6/15/01	12/27/01	6/4/02	
Benzene	BDL	BDL	BDL	NS	NA	NA	BDL	1.00
Toluene	BDL	BDL	BDL	NS	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	NS	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	NS	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	BDL	NS	NA	NA	NA	21.00
MTBE	BDL	BDL	BDL	NS	NA	NA	BDL	200.00
EDB	BDL	BDL	BDL	NS	NA	NA	NA	70.00
IPE	BDL	BDL	BDL	NS	NA	NA	BDL	0.07
Total VOCs	0.00	0.00	0.00	NS	NA	NA	0.00	
1,1-Dichloroethane	202.00	118.50	50.00	NS	100.00	98.20	96.00	700.00
1,2-Dichloroethane							1.00	
1,1 Dichloroethene	260.00	BDL	170.00	NS	62.00	88.80	85.00	7.00
Trichloroethene	67.20	BDL	65.60	NS	34.40	40.90	38.00	2.80
1,1,1 Trichloroethane	518.00	BDL	265.00	NS	198.00	250.00	220.00	200.00
cis-,1,2-Dichloroethylene	93.60	63.40	72.40	NS	48.20	53.40	NA	70.00
1,1,2,2-Tetrachloroethane	BDL	BDL	1.40	NS	BDL	BDL	BDL	MDL
1,1,2-Trichloroethane	BDL	BDL	1.60	NS	BDL	BDL	BDL	MDL
Chloroethane	7.00	5.00	6.00	NS	4.40	1.40	2.40	2800.00
Vinyl Chloride	30.70	20.00	24.60	NS	12.60	4.70	BDL	0.02
Total CVOCS	1178.50	206.90	656.60		474.50	539.50	346.40	
1-MethylNaphthalene	BDL	NA	NA	NA	NA	NA	NA	MDL
2-MethylNaphthalene	BDL	NA	NA	NA	NA	NA	NA	MDL
Phenanthrene	BDL	NA	NA	NA	NA	NA	NA	210.00
Lead	NA	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Netto Teer Recovery Well Sampling Results

Constituent	Date						2L Standard
	10/4/1999	12/17/1999	6/14/2000	12/7/2000	06/15/2001	12/29/2001	
Benzene	BDL	2.20	BDL	BDL	NA	NA	1.00
Toluene	BDL	BDL	BDL	BDL	NA	NA	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	NA	NA	29.00
Xylenes	BDL	BDL	BDL	BDL	NA	NA	530.00
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	21.00
MTBE	BDL	2.10	BDL	BDL	NA	NA	200.00
EDB	BDL	BDL	BDL	BDL	NA	NA	70.00
IPE	BDL	BDL	BDL	BDL	NA	NA	0.07
Total VOCs	0.00	4.30	0.00	0.00	NA	NA	
Fluorene	BDL	5.00	BDL	NA	NA	NA	280.00
Phenanthrene	BDL	4.00	BDL	NA	NA	NA	210.00
1,1-Dichloroethane	14.70	7.80	5.80	5.00	2.10	4.10	700.00
1,1 Dichloroethene	26.80	4.90	8.60	1.90	1.40	4.80	7.00
Trichloroethene	10.90	3.20	BDL	1.80	1.10	3.20	2.80
1,1,1 Trichloroethane	53.20	4.00	15.50	7.20	4.90	17.50	200.00
cis-,1,2-Dichloroethene	6.80	6.80	BDL	BDL	BDL	1.80	70.00
Chloroethane	BDL	BDL	5.20	BDL	BDL	BDL	MDL
Vinyl Chloride	3.10	BDL	1.90	BDL	BDL	BDL	0.02
Total CVOCs	115.50	26.70	37.00	15.90	9.50	31.40	
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	210.00
Lead	NA	NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results

Constituent	RW-7								
	10/4/99	6/14/00	6/23/00	7/6/00	12/7/00	6/15/01	12/28/01	6/6/02	2L Standard
Benzene	BDL	BDL	BDL	9.50	BDL	NA	NA	BDL	1.00
Toluene	BDL	BDL	BDL	4.00	BDL	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	1.40	BDL	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	10.60	BDL	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	144.00	BDL	BDL	NA	NA	NA	21.00
MTBE	BDL	BDL	BDL	2.80	BDL	NA	NA	BDL	200.00
EDB	BDL	BDL	BDL	BDL	BDL	NA	NA	NA	70.00
IPE	BDL	BDL	BDL	BDL	BDL	NA	NA	BDL	0.07
Total VOCs	0.00	0.00	224.00	28.30	0.00	NA	NA	0.00	
1,1-Dichloroethane	10.00	1.70	BDL	2.40	BDL	BDL	1.70	1.50	700.00
1,1 Dichloroethene	1.60	1.90	BDL	BDL	BDL	BDL	BDL	BDL	7.00
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.80
1,1,1 Trichloroethane	BDL	BDL	BDL	2.60	BDL	BDL	1.70	BDL	200.00
cis-,1,2-Dichloroethylene	3.80	1.90	BDL	2.20	BDL	BDL	1.20	NA	70.00
Chloroethane	BDL	BDL	BDL	1.60	BDL	BDL	BDL	BDL	MDL
Vinyl Chloride	6.00	3.90	BDL	BDL	BDL	1.00	BDL	BDL	0.02
Total CVOCS	21.40	9.40	0.00	8.80	0.00	1.00	4.60	1.50	
Lead	NA	NA	BDL	NA	NA	NA	NA	NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results

Constituent	RW-8					2L Standard
	6/14/00	12/7/00	6/15/00	12/28/01	Date 6/4/02	
Benzene	10.10	BDL	BDL	NS	BDL	1.00
Toluene	1.20	BDL	BDL	NS	BDL	1000.00
Ethylbenzene	3.10	BDL	BDL	NS	13.00	29.00
Xylenes	4.90	BDL	BDL	NS	BDL	530.00
Naphthalene	BDL	BDL	BDL	NS	NA	21.00
MTBE	BDL	2.50	BDL	NS	BDL	200.00
EDB	BDL	BDL	BDL	NS	NA	70.00
IPE	BDL	BDL	BDL		BDL	0.07
Total VOCs	19.30	2.50	0.00		13.00	
Fluorene	BDL	BDL	BDL		BDL	280.00
Phenanthrene	BDL	BDL	BDL		BDL	210.00
1,1-Dichloroethane	BDL	BDL	BDL		BDL	700.00
1,1 Dichloroethene	BDL	BDL	BDL		BDL	7.00
Trichloroethene	BDL	BDL	BDL		BDL	2.80
1,1,1 Trichloroethane	BDL	BDL	BDL		BDL	200.00
cis-,1,2-Dichloroethene	BDL	BDL	BDL		NA	70.00
Chloroethane	BDL	BDL	BDL		BDL	MDL
Vinyl Chloride	BDL	BDL	BDL		BDL	0.02
Total CVOCs	0.00	0.00	0.00		0.00	
Phenanthrene	BDL	BDL	BDL		NA	210.00
Lead	NA	NA	NA		NA	15.00

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Table 5: Nello Teer Recovery Well Sampling Results

Constituent	RW-9							2L Standard
	5/19/00	6/14/00	9/8/00	12/7/00	6/15/01	12/27/01	6/6/02	
Benzene	BDL	BDL	BDL	BDL	NA	NA	BDL	1.00
Toluene	BDL	BDL	BDL	BDL	NA	NA	BDL	1000.00
Ethylbenzene	BDL	BDL	BDL	BDL	NA	NA	BDL	29.00
Xylenes	BDL	BDL	BDL	BDL	NA	NA	BDL	530.00
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	NA	21.00
MTBE	BDL	BDL	BDL	BDL	NA	NA	BDL	200.00
EDB	BDL	BDL	BDL	BDL	NA	NA	NA	70.00
IPE	BDL	BDL	BDL	BDL	NA	NA	BDL	0.07
Total VOCs	0.00	0.00	0.00	0.00	NA	NA	0.00	
1,1-Dichloroethane	84.50	75.60	33.00	84.20	78.60	180.00	130.00	700.00
1,1 Dichloroethene	75.10	64.20	38.50	83.40	78.60	102.00	71.00	7.00
Trichloroethene	16.00	15.00	4.60	17.50	21.70	26.00	13.00	2.80
1,1,1 Trichloroethane	50.60	40.20	16.30	37.60	38.90	65.00	31.00	200.00
cis-,1,2-Dichloroethylene	26.80	23.70	11.00	28.00	21.70	42.00	NA	70.00
Chloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	MDL
Vinyl Chloride	8.50	9.30	1.30	15.10	14.20	12.00	8.40	0.02
Total CVOCs	261.50	228.00	104.70	265.80	253.70	427.00	253.40	
Lead	NA	NA	NA	NA	NA	NA	NA	15.00

123 files/13/139412/9412rwax.xls

All Results in ug/l.

NA Indicates Not Analyzed.

BDL Indicates Below Detection Limit.

Bold Indicates Concentration Above State 2L Standard.

NS Indicates Well Not Sampled.

Appendix A

**Appendix A
Laboratory Analytical Results
and
Chain of Custody**



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 07, 2002
Description : Nello Teer
Sample ID : RW-1
Collected By :
Collection Date : 06/06/02 10:10

ESC Sample # : L79879-01
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/11/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethene	1.7	1.0	ug/l	601/602MS	06/11/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/11/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/11/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Trichloroethene	3.5	1.0	ug/l	601/602MS	06/11/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/11/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/11/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/11/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

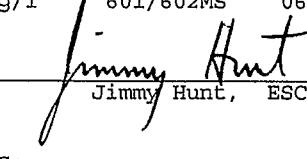
The reported analytical results relate only to the sample submitted.

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Jimmy Hunt, ESC Representative



**ENVIRONMENTAL
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 07, 2002
Description : Nello Teer
Sample ID : RW-2
Collected By :
Collection Date : 06/06/02 14:50

ESC Sample # : L79879-02
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/11/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/11/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/11/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/11/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/11/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/11/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted.

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Jimmy Hunt
Jimmy Hunt, ESC Representative



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REPORT OF ANALYSIS

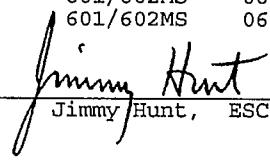
Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 07, 2002
Description : Nello Teer
Sample ID : RW-4
Collected By :
Collection Date : 06/06/02 08:33

ESC Sample # : L79879-03
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	1.1	1.0	ug/l	601/602MS	06/11/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/11/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/11/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/11/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/11/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/11/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/11/02	1


Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 07, 2002
Description : Nello Teer
Sample ID : RW-7
Collected By :
Collection Date : 06/06/02 09:15

ESC Sample # : L79879-04
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/11/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethane	1.5	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/11/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/11/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/11/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/11/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/11/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

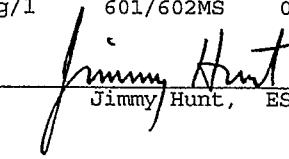
Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Jimmy Hunt, ESC Representative



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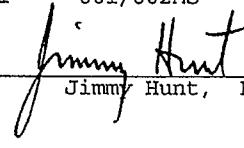
Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 07, 2002
Description : Nello Teer
Sample ID : RW-9
Collected By :
Collection Date : 06/06/02 13:10

ESC Sample # : L79879-05
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/11/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/11/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethane	130	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1-Dichloroethene	71.	1.0	ug/l	601/602MS	06/11/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/11/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/11/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/11/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/11/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/11/02	1
1,1,1-Trichloroethane	31.	1.0	ug/l	601/602MS	06/11/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Trichloroethene	13.	1.0	ug/l	601/602MS	06/11/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/11/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/11/02	1
Vinyl chloride	8.4	1.0	ug/l	601/602MS	06/11/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/11/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/11/02	1


Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L79879-01	Chloroethane	J4
L79879-02	Chloroethane	J4
L79879-03	Chloroethane	J4
L79879-04	Chloroethane	J4
L79879-05	Chloroethane	J4
	1,1-Dichloroethane	E
	1,1-Dichloroethene	E

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J4	The associated batch QC did not successfully meet the established quality control criteria for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Quantum Environmental
6001 Chapel Hill Rd., Suite 108
Raleigh, NC 27607

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 1 of 1

L79879

Chain of Custody
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Mt. Juliet, TN 37122

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FAX (615) 758-5859

*Matrix SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition:	(lab use only)	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 40°C	Bottles Received: 1047B	OK	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/17/02	Time: 09:45	pH Checked:	NCF:

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : RW-3
Collected By : Davis/Dwyer
Collection Date : 06/04/02 15:00

ESC Sample # : L79491-01
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	13.	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	12.	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	11.	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	5.9	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	2.8	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	18.	2.0	ug/l	601/602MS	06/07/02	1

Jimmy Hunt

Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : RW-8
Collected By : Davis/Dwyer
Collection Date : 06/04/02 15:15

ESC Sample # : L79491-02
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	13.	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

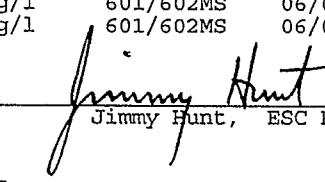
Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Jimmy Hunt, ESC Representative



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REPORT OF ANALYSIS

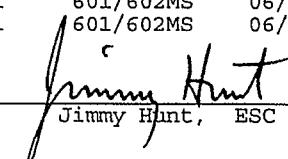
Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : RW-5
Collected By : Davis/Dwyer
Collection Date : 06/04/02 15:48

ESC Sample # : L79491-03
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	2.4	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	96.	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	1.0	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	85.	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	220	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	38.	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m,p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1


Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

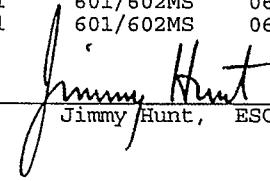
Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-9
Collected By : Davis/Dwyer
Collection Date : 06/04/02 12:32

ESC Sample # : L79491-04
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1


Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-11
Collected By : Davis/Dwyer
Collection Date : 06/04/02 12:40

ESC Sample # : L79491-05
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

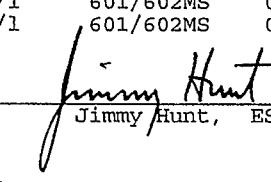
Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-26
Collected By : Davis/Dwyer
Collection Date : 06/04/02 10:15

ESC Sample # : L79491-06
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	2.0	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	1.2	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

Jimmy Hunt
Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-18
Collected By : Davis/Dwyer
Collection Date : 06/04/02 11:27

ESC Sample # : L79491-07
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	1.9	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	2.2	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Jimmy Hunt
Jimmy Hunt, ESC Representative

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Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-17
Collected By : Davis/Dwyer
Collection Date : 06/04/02 10:40

ESC Sample # : L79491-08
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	3.9	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	3.2	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Jimmy Hunt
Jimmy Hunt, ESC Representative

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-1
Collected By : Davis/Dwyer
Collection Date : 06/04/02 11:20

ESC Sample # : L79491-09
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

Jimmy Hunt
Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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REPORT OF ANALYSIS

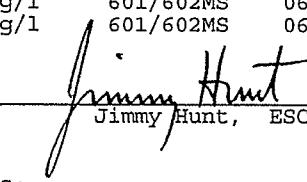
Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-7
Collected By : Davis/Dwyer
Collection Date : 06/04/02 11:08

ESC Sample # : L79491-10
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m,p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1


Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-25
Collected By : Davis/Dwyer
Collection Date : 06/04/02 14:30

ESC Sample # : L79491-11
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	23.	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	150	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	1.8	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	120	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	220	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	1.3	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	46.	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	18.	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m,p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

Jimmy Hunt
Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Mt. Juliet, TN 37122
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-13
Collected By : Davis/Dwyer
Collection Date : 06/04/02 10:44

ESC Sample # : L79491-12
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	4.9	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	1.5	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

Jimmy Hunt

Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-15
Collected By : Davis/Dwyer
Collection Date : 06/04/02 13:15

ESC Sample # : L79491-13
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	BDL	1.0	ug/l	601/602MS	06/07/02	.1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01 KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Jimmy Hunt
Jimmy Hunt, ESC Representative

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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-23
Collected By : Davis/Dwyer
Collection Date : 06/04/02 13:47

ESC Sample # : L79491-14
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	5.3	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	9.8	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	2.4	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	1.5	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	3.0	2.0	ug/l	601/602MS	06/07/02	1

Jimmy Hunt
Jimmy Hunt, ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Mike Dwyer
Quantum Environmental Inc.
6001 Chapel Hill Road, Suite 108
Raleigh, NC 27607

June 11, 2002

Date Received : June 05, 2002
Description : Nello Teer
Sample ID : MW-20D
Collected By : Davis/Dwyer
Collection Date : 06/04/02 15:24

ESC Sample # : L79491-15
ESC Key : QUANTUM-001394012
Site ID :
Project # : 0013-94-012

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Benzene	2.6	1.0	ug/l	601/602MS	06/07/02	1
Bromodichloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromoform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Bromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Carbon Tetrachloride	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chlorodibromomethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	601/602MS	06/07/02	1
Chloroform	BDL	1.0	ug/l	601/602MS	06/07/02	1
Chloromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dibromoethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Dichlorodifluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,2-Dichloropropane	BDL	1.0	ug/l	601/602MS	06/07/02	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Di-isopropyl ether	5.3	5.0	ug/l	601/602MS	06/07/02	1
Ethylbenzene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Methylene chloride	BDL	5.0	ug/l	601/602MS	06/07/02	1
Methyl tert-butyl ether	BDL	5.0	ug/l	601/602MS	06/07/02	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Tetrachloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichloroethene	BDL	1.0	ug/l	601/602MS	06/07/02	1
Trichlorofluoromethane	BDL	1.0	ug/l	601/602MS	06/07/02	1
Toluene	BDL	5.0	ug/l	601/602MS	06/07/02	1
Vinyl chloride	3.2	1.0	ug/l	601/602MS	06/07/02	1
o-Xylene	BDL	1.0	ug/l	601/602MS	06/07/02	1
m&p-Xylene	BDL	2.0	ug/l	601/602MS	06/07/02	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

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Jimmy Hunt
Jimmy Hunt, ESC Representative

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L79491-01	2-Chloroethyl vinyl ether	J4
L79491-02	2-Chloroethyl vinyl ether	J4
L79491-03	2-Chloroethyl vinyl ether	J4
	1,1-Dichloroethane	E
	1,1-Dichloroethene	E
	1,1,1-Trichloroethane	E
L79491-04	Chloroethane	J4
L79491-05	Benzene	H
	Bromodichloromethane	H
	Bromoform	H
	Bromomethane	H
	Carbon Tetrachloride	H
	Chlorobenzene	H
	Chlorodibromomethane	H
	Chloroethane	HJ4
	2-Chloroethyl vinyl ether	H
	Chloroform	H
	Chloromethane	H
	1,2-Dibromoethane	H
	1,2-Dichlorobenzene	H
	1,3-Dichlorobenzene	H
	1,4-Dichlorobenzene	H
	Dichlorodifluoromethane	HJ4
	1,1-Dichloroethane	H
	1,2-Dichloroethane	H
	1,1-Dichloroethene	H
	trans-1,2-Dichloroethene	H
	1,2-Dichloropropane	H
	cis-1,3-Dichloropropene	H
	trans-1,3-Dichloropropene	H
	Di-isopropyl ether	H
	Ethylbenzene	H
	Methylene chloride	H
	Methyl tert-butyl ether	H
	1,1,2,2-Tetrachloroethane	H
	Tetrachloroethene	H
	1,1,1-Trichloroethane	H
	1,1,2-Trichloroethane	H
	Trichloroethene	H
	Trichlorofluoromethane	H
	Toluene	H
	Vinyl chloride	H
	o-Xylene	H
	m&p-Xylene	H
L79491-06	Chloroethane	J4
L79491-07	Chloroethane	J4
L79491-08	Chloroethane	J4
L79491-09	Chloroethane	J4
L79491-10	Chloroethane	J4
L79491-11	Chloroethane	J4
	1,1-Dichloroethane	E
	1,1-Dichloroethene	E
	1,1,1-Trichloroethane	E
L79491-12	Benzene	H
	Bromodichloromethane	H
	Bromoform	H
	Bromomethane	H
	Carbon Tetrachloride	H
	Chlorobenzene	H
	Chlorodibromomethane	H
	Chloroethane	HJ4
	2-Chloroethyl vinyl ether	H
	Chloroform	H
	Chloromethane	H
	1,2-Dibromoethane	H
	1,2-Dichlorobenzene	H
	1,3-Dichlorobenzene	H
	1,4-Dichlorobenzene	H
	Dichlorodifluoromethane	HJ4

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L79491-13	1,1-Dichloroethane	H
L79491-13	1,2-Dichloroethane	H
L79491-13	1,1-Dichloroethene	H
L79491-13	trans-1,2-Dichloroethene	H
L79491-13	1,2-Dichloropropane	H
L79491-13	cis-1,3-Dichloropropene	H
L79491-13	trans-1,3-Dichloropropene	H
L79491-13	Di-isopropyl ether	H
L79491-13	Ethylbenzene	H
L79491-13	Methylene chloride	H
L79491-13	Methyl tert-butyl ether	H
L79491-13	1,1,2,2-Tetrachloroethane	H
L79491-13	Tetrachloroethene	H
L79491-13	1,1,1-Trichloroethane	H
L79491-13	1,1,2-Trichloroethane	H
L79491-13	Trichloroethene	H
L79491-13	Trichlorofluoromethane	H
L79491-13	Toluene	H
L79491-13	Vinyl chloride	H
L79491-13	o-Xylene	H
L79491-13	m&p-Xylene	H
L79491-13	Chloroethane	J4
L79491-13	Benzene	H
L79491-13	Bromodichloromethane	H
L79491-13	Bromoform	H
L79491-13	Bromomethane	H
L79491-13	Carbon Tetrachloride	H
L79491-13	Chlorobenzene	H
L79491-13	Chlorodibromomethane	H
L79491-13	Chloroethane	HJ4
L79491-13	2-Chloroethyl vinyl ether	H
L79491-13	Chloroform	H
L79491-13	Chloromethane	H
L79491-13	1,2-Dibromoethane	H
L79491-13	1,2-Dichlorobenzene	H
L79491-13	1,3-Dichlorobenzene	H
L79491-13	1,4-Dichlorobenzene	H
L79491-13	Dichlorodifluoromethane	HJ4
L79491-13	1,1-Dichloroethane	H
L79491-13	1,2-Dichloroethane	H
L79491-13	1,1-Dichloroethene	H
L79491-13	trans-1,2-Dichloroethene	H
L79491-13	1,2-Dichloropropane	H
L79491-13	cis-1,3-Dichloropropene	H
L79491-13	trans-1,3-Dichloropropene	H
L79491-13	Di-isopropyl ether	H
L79491-13	Ethylbenzene	H
L79491-13	Methylene chloride	H
L79491-13	Methyl tert-butyl ether	H
L79491-13	1,1,2,2-Tetrachloroethane	H
L79491-13	Tetrachloroethene	H
L79491-13	1,1,1-Trichloroethane	H
L79491-13	1,1,2-Trichloroethane	H
L79491-13	Trichloroethene	H
L79491-13	Trichlorofluoromethane	H
L79491-13	Toluene	H
L79491-13	Vinyl chloride	H
L79491-13	o-Xylene	H
L79491-13	m&p-Xylene	H
L79491-13	Chloroethane	J4
L79491-14	1,1-Dichloroethane	H
L79491-14	1,2-Dichloroethane	H
L79491-14	1,1-Dichloroethene	H
L79491-14	trans-1,2-Dichloroethene	H
L79491-14	1,2-Dichloropropane	H
L79491-14	cis-1,3-Dichloropropene	H
L79491-14	trans-1,3-Dichloropropene	H
L79491-14	Di-isopropyl ether	H
L79491-14	Ethylbenzene	H
L79491-14	Methylene chloride	H
L79491-14	Methyl tert-butyl ether	H
L79491-14	1,1,2,2-Tetrachloroethane	H
L79491-14	Tetrachloroethene	H
L79491-14	1,1,1-Trichloroethane	H
L79491-14	1,1,2-Trichloroethane	H
L79491-14	Trichloroethene	H
L79491-14	Trichlorofluoromethane	H
L79491-14	Toluene	H
L79491-14	Vinyl chloride	H
L79491-14	o-Xylene	H
L79491-14	m&p-Xylene	H
L79491-14	Chloroethane	J4
L79491-15	1,1-Dichloroethane	H
L79491-15	1,2-Dichloroethane	H
L79491-15	1,1-Dichloroethene	H
L79491-15	trans-1,2-Dichloroethene	H
L79491-15	1,2-Dichloropropane	H
L79491-15	cis-1,3-Dichloropropene	H
L79491-15	trans-1,3-Dichloropropene	H
L79491-15	Di-isopropyl ether	H
L79491-15	Ethylbenzene	H
L79491-15	Methylene chloride	H
L79491-15	Methyl tert-butyl ether	H
L79491-15	1,1,2,2-Tetrachloroethane	H
L79491-15	Tetrachloroethene	H
L79491-15	1,1,1-Trichloroethane	H
L79491-15	1,1,2-Trichloroethane	H
L79491-15	Trichloroethene	H
L79491-15	Trichlorofluoromethane	H
L79491-15	Toluene	H
L79491-15	Vinyl chloride	H
L79491-15	o-Xylene	H
L79491-15	m&p-Xylene	H
L79491-15	Chloroethane	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
H	RIN(EPA)-Re-Analyzed: The indicated analytical results were generated from a reinjection of the same sample extract or aliquot.
J4	The associated batch QC did not successfully meet the established quality control criteria for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Quantum Environmental Inc.

6001 Chapel Hill Road. Suite 108
Raleigh, NC 27607

Alternate billing information:

				Analysis/Container/Preservative				Chain of Custody	
Report to: Mr. Mike Dwyer		Email: mdwyer@QUANTUMCOS.c						Page <u>3</u> of <u>3</u>	
Project Description: Nello Teer		City/State Collected Durham NC						 L79491	
Phone: (919) 852-3595 FAX: (919) 852-1997	Client Project #: 0013-94-012	Lab Project # OUANTUM-001394012						Prepared by: ENVIRONMENTAL SCIENCE CORP.	
Collected by (print): <i>TDavis/m Dwyer</i>	Site/Facility ID#:	P.O. #:						12065 Lebanon Road Mt. Juliet, TN 37122 Phone (800) 767-5859 FAX (615) 758-5859	
Collected by (signature): <i>M. Dwyer</i>	Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day 200% <input type="checkbox"/> Next Day 100% <input type="checkbox"/> Two Day 50%	Date Results Needed	No. of Cntrs	V601/602 40mlAmb-HCl				CoCode: OUANTUM (lab use only) Template/Prologin T14686/P57647 Cooler #: 5128ds Shipped Via: FedEX Ground	
Packed on Ice N <input checked="" type="checkbox"/> Y	Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes								
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time			Remarks/Contaminant	Sample # (lab only)
RW-3	G	GW		6/4/02	1500	2	X		L79491-01
RW-8	G	GW			1515	2	X		02
RW-5	G	GW			1548	2	X		03
MW-9	G	GW			1232	2	X		04
MW-11	G	GW			1240	2	X		05
MW-26	G	GW			1015	2	X		06
MW-18	G	GW			1129	2	X		07
MW-17	G	GW			1040	2	X		08
MW-1	G	GW		✓	1120	2	X		09

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature) <i>M. Dwyer</i>	Date: 1700	Time: 1700	Received by: (Signature)	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: OK (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 44 Bottles Received: 29+1TB	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/5/02 Time: 945	pH Checked: _____ NCF: _____

Quantum Environmental Inc.

6001 Chapel Hill Road. Suite 108
Raleigh, NC 27607

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page 2 of 2

Report to:
Mr. Mike Dwyer

Email:
mdwyer@QUANTUMCOs.c

Project
Description: **Nello Teer**

City/State
Collected **Durham NC**

Phone: (919) 852-3595
FAX: (919) 852-1997

Client Project #:
0013-94-012

Lab Project #
OUANTUM-001394012

Collected by (print):
T. Dwyer / Mr. Dwyer

Site/Facility ID#:

P.O.#:

Collected by (signature):
M. Dwyer

Rush? (Lab MUST Be Notified)

Same Day 200%
Next Day 100%
Two Day 50%

Date Results Needed

Email? No X Yes
FAX? No Yes

Packed on Ice N Y

No.
of
Cntrs

V601/602 40ml Amb-HCl

CoCode: **OUANTUM** (lab use only)

Template/Pralogin: **T14686/P57647**

Cooler #: **5/28/15**

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
MW-7	G	GW		6/4/02	1108	2	X	L7941-10
MW-25	G	GW			1430	2	X	11
MW-13	G	GW			1044	2	X	12
MW-15	G	GW			1315	2	X	13
MW-23	G	GW			1347	2	X	14
MW-20D	G	GW			1524	2	X	15
		GW				2	X	
		GW				2	X	
		GW				2	X	
		GW				2	X	

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

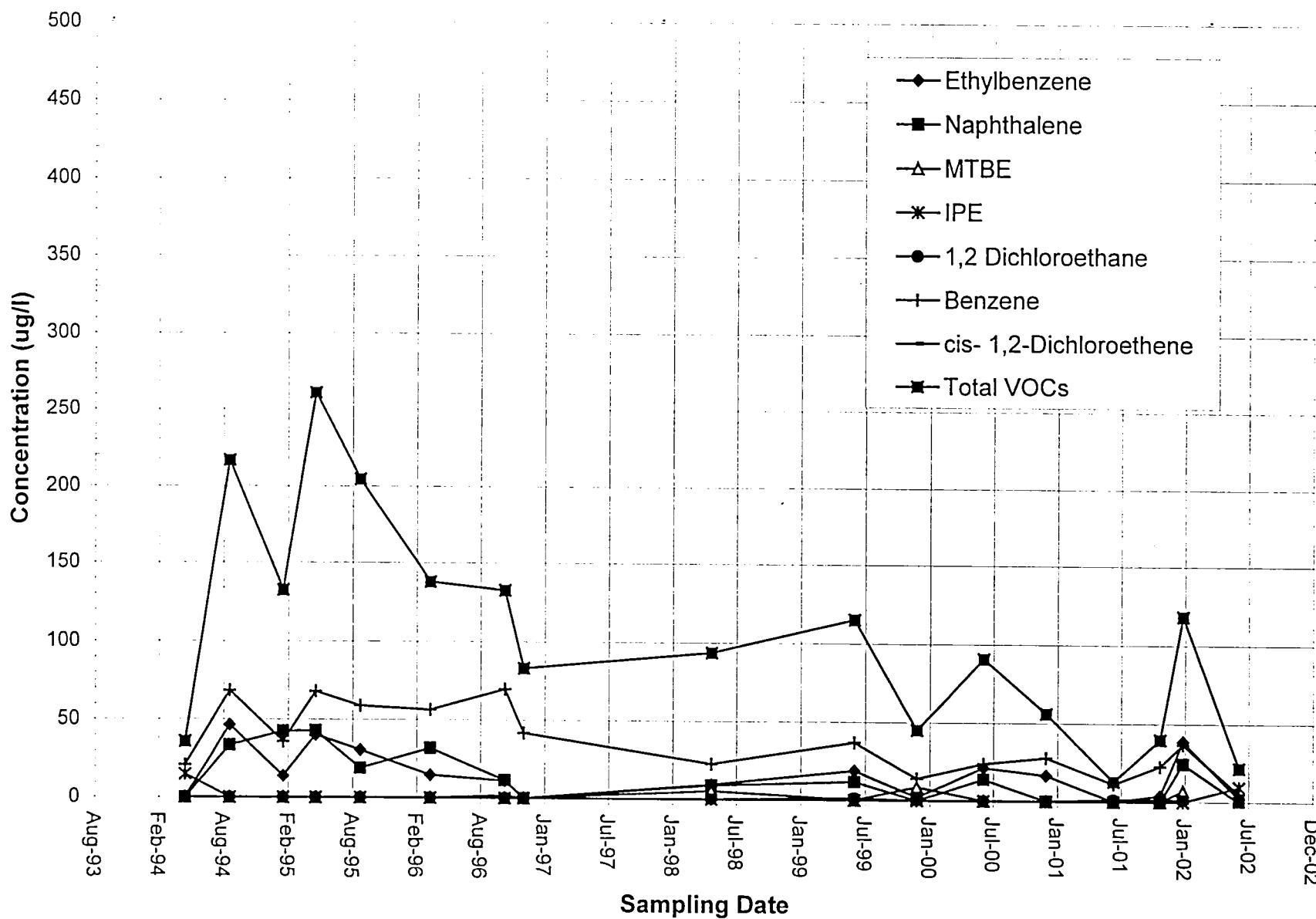
Relinquished by: (Signature) M. Dwyer	Date: 6/4/02	Time: 1700	Received by: (Signature) John Dwyer	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: OK (lab use only)
Relinquished by: (Signature) John Dwyer	Date: _____	Time: _____	Received by: (Signature) John Dwyer	Temp: 64° Bottles Received: 29 TTB	
Relinquished by: (Signature) John Dwyer	Date: _____	Time: _____	Received for lab by: (Signature) John Dwyer	Date: 6/5/02 Time: 945	pH Checked: NCI

Appendix B

Appendix B

**Charts for Groundwater Concentrations
Versus Time for MW-23 and MW-25**

MW-23 Historic Groundwater Monitoring Results.



MW-25 Historic Groundwater Monitoring Results.

